

aaagacaaat ctcttcctct gcagaccttg attgatattc tcaagcagca aacagggaat 360  
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<210> 3910  
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<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-068-Q1-E1-D6

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tggcatgttt ggaggaggag gcaaattcaa gaagtggaag taatctcaaa aacccacct 180  
ttgatcctct cctccagtat agtctcatta cctgaccgat gtttctaata atcccccttc 240  
aaacatattt cattttaact atgtcggttt agagattact ggttgaggaa ataattggag 300  
agtgctanta taaaccttat ggtatctgca gcagagggtt ctttaatctc tcaatagtag 360  
atgctttgaa acttatctat aatttgggaa tgnatgaca gtttgtgt 408

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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-068-Q1-E1-D7

<400> 3911

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gaggtaccgt gttgagaatc tgtatgaagg tcctcttgat gatcagtatg caaatgccat 180  
caggaactgt gacccaatg gacctctcat gctctacgta tccaagatga ttccagcctc 240  
tgacaagggt agattctttg ccttcggctg tgtctttgct ggtaagggtt ctactgggat 300  
gaaggtcaga atcatgggtc ccaactatat ccctggtgag aagaaggatc tgtacactaa 360  
gagtgttcag aggactgtca tttggatggg taaagaagca aagaacaan t 411



<210> 3912  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-068-Q1-E1-E12  
  
 <400> 3912  
  
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 acccgcgtgt tatcccggtt ctcaaatttc tcattcttcc gggaaaattc actttttttt 180  
 tttcctggga agattcgttg tgttgtgaat tttagtgggc accttcaaatt tttcgatttt 240  
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 attcgttaga tttccggatt tgaaaaagag tcaccaactt gtacggattc tcgttttggg 360  
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 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-068-Q1-E1-E2  
  
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 gatccctgat ggtttcattg aagattttgt ctttgatgat actgcttttg tctccggact 180  
 ctggtctcta gaacccttta acccagttcc gaaactggaa cctagttcac ctgttcttga 240  
 tccagattcc tatgtccaag agattctgca aatggannnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnntgagg ttgagactgt ctcaaaccgg aaaaaaaca agaggtttga 360  
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 <211> 412  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-068-Q1-E1-E4

<400> 3914

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ggcgtgttgt tagtaacttc gttgcacagg cactaacgaa agagccattg actgtttacg 180  
gtgatgggaa gcacacaagg agttttccaat ttgtttctga tctgggttga aggtttgatg 240  
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aactcattac catcttccgg gttagtctcn cagttcttaa cactagagcc cgaagtttac 360  
cttttaaacc ttattttcct tctcctcttc actgttacag gtttancttc tc 412

<210> 3915

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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<400> 3915

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gaaccttaaa tgtgattttc tccaattttc ctaagctccg tgcctcagaa gctgctactt 180  
tctgcacccc tcatttggtg ggggcgctca aatctggtgt tgaagacgtc cagggattag 240  
tattggatat tctttacttg ctaagacact cctggacgaa tatgtctata gatgttgcaa 300  
agtctcaagc catgattgca gctgaagcaa ttcccgctct gcaaagtctg atgaaaacat 360  
gccctcctag gtttcacgac aaggcagata gcttattgca ctgcttacca ggttgcttaa 420  
cagtgaacgt catgcgtgcc aataacttaa agcagtctat ggcaac 466

<210> 3916

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-066-Q1-E1-E1

<400> 3916

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nnnnnnnnnn gttttgcgtc tgatttctat aaggctgggt ctgattggtc ttgttttagtg 180  
gaagatgaag agactgtttc ttcttctgtg aagaagatga aacagtcgaa cttgtttcag 240  
atttgggggt tacaagagaa ttctcctgat acaacgaaga agatgaaaca aactgatttg 300  
tttcagagtt ggggtttaca aaagccttct cctttcactt cacctgcttc gaattcggcg 360  
aagaagacga cgagtgtctt tggaaaaang cgtaaaagac tcctcgttta acaatg 416

<210> 3917  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-066-Q1-E1-E12

<400> 3917

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ggaccagtca cgctgtttgt tgaaatcttg aacaagtaca ttactttctt tgagaaangg 180  
aatccacata tcaactccatc tgatatacag agcctcatag aattgatcaa caatgagatg 240  
caaagcgaca acggtaacac gacaatccac tcagatccct tctttacaag tacattgcgt 300  
tacattaagt tcataaaaca gaaagggtgt ttgatgggtg agaaatatga ccctatcaag 360  
ctgtgactta aatccgagac acaagcctca tcaaatcccg agggggaatc cncgggaatt 420  
ttccaaagaa aatggt 436

<210> 3918  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-066-Q1-E1-E2

<400> 3918

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tccccgcaag taacagtcag agaatctctg attttctctg ctttccttcg tcttcctaaa 180  
gaagtcggca aagatgaaaa aatgatgttt gtggatcaag tgatggaatt ggtagagctg 240  
gacagtctta gggactccat tgttggttta cggggtgtca cggggctttc cacggagcag 300  
agaaagagac tgacaatcgc ggtggagctt gtagccaacc cttccatcat ctttatggat 360  
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<210> 3919

<211> 418

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-E4

<400> 3919

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gacaaggggt agtttcttct tancctctgtt aatgacgggt gtgattcttg ctcttctgt 180  
cgtctctgga gaaaatgggt tttccgatct taaaatccgt actcacttga aacgactcaa 240  
caagccaagc tctcaaatcg attaaagagc ccagatggag atatgattga ctgtgttcca 300  
atcactnacc aaccannent ttgctcatcc tctgctcatt aatcacactg tccagatgtg 360  
gccaaagttt gaaccagan antgtacnta gtggagaagt aaagttcatc atgancca 418

<210> 3920

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-E7

<400> 3920

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 ttctgggaac tgattcatct cctattcgctc ggcatctgctg ttgcttatgg tttgttttagc 180  
 cgtaggaatg ttgaatccgc tgttgattta aggatgactc gtgtagatga gtcttctttg 240  
 tcttatgtat ctagaatctt ccagggtttct tctgtttttg acgaagagtt tgatgataat 300  
 tcttgtgagt ttgttgatgt gaggagtgat gaagagtgtg agtgctcgag cttctgtggt 360  
 tgggaaatct gagtntttg gttgttgaaa agcggggcaaa ttgggaagaa tcg 413

<210> 3921  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-F12  
 <400> 3921

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 tctaaaggct ttggatttgt caattttgag aattctgatg atgcagccag agctgttgac 120  
 gctctaaatg gaaagacctt tgacgacaag gagtggtttg ttgggaaggc ccaaaagaag 180  
 tccgagaggg aaactgaact caaacaaaag tttgagcaaa gtttgaagga ggctgcagac 240  
 aagtctcagg ggtcgaactt atatgttaag aacttgatg agagcgtcac agatgataag 300  
 ctacagagaac attttgctcc ctttggaact attacatcat gcaaggtgat gcgtgacccc 360  
 agtggagtga gtagaggatc tggatttgtc gcattttcaa ctctgagga agcaactaga 420  
 gctattacag agatgaatgg gaaaatgatc gttacaaaac cncatatatg 469

<210> 3922  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-F4  
 <400> 3922

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 attttataac aatgggtgat tctactggtg agccggggag ctccatgcat ggagtcaccg 120

gtagagaaca aagcttttgc ttctcgggtgc aatcaccaat tgtgcatacc gacaagacgg 180  
 ccaagttcga ccttccgggtg gacacagagc ataaggcaac ggttttcaag ctcttctcct 240  
 tcgccaacc tcacatgaga acgttccatc tctcgtggat ctctttctcc acatgttttg 300  
 tctcgacttt cgcagctgca ccacttgtcc ctatcatccg ggagaatctc aacctcacca 360  
 aacaagacat tggaaacgcc ggagttgcct ctgtctctgg ggagtatctt ctctaggctc 420  
 gtgatgggag ccgtgtgtga tcttttgggg tccccgttta cngttgtgcc ctctcctt 477

<210> 3923  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-F5  
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 agatcgccgg cgactattcc gatgaaacgt ccggaaactc cttcttctc tcacttttct 180  
 gcttctccgg ttacttcttc tagtccatta ctacgttcta gtcctagtcc gtctacttcc 240  
 tccgccggcg cctctagtac ggctgttgc tccacgaaac tgaaggagaa tattacaagt 300  
 cacgattcgg tttcgtcctc tcagtccacg agaggtcaat aatggagatg agattgcgtg 360  
 gtatgcagat ggagactaan actattagga atgagtataa tccatctctt tggt 414

<210> 3924  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-066-Q1-E1-F6  
 <400> 3924

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 ggatgtctct gatattcatg gaggcattga tcagaacaga agaactaaaa cctttttcga 180

cttcatgaaa gcaaagaaag gtatcttggt atgtactgat gttgctgctc gtggtctoga 240  
tattccttcc gtggactgga ttatacagta tgatccacca gacaagccaa cggaatatat 300  
ccataggggtt ggtcgaacag cccgtggaga aggagcaaag ggaaaggcat tacttgtctt 360  
gattcctgaa gaacttcagt ttattccgct acctgaaggc tgccaaagta ctgtta 416

<210> 3925

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-F8

<400> 3925

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gtttctccat tctcaagctt ccattatctc aatctccagg acaagaatcc tcaaacgggt 180  
ctctcagaat ctctcttag cttaaagctgc ttcagctcaa gctagtagta gtgttggtga 240  
gagtgttgct caaacatcag aaaaagatgt gttgaaggct ctgtctcaga ttattgatcc 300  
tgattttggg acagatattg tttcttgtgg ttttgtgaaa gatttgggga ttaatgaagc 360  
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<210> 3926

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-F9

<400> 3926

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catggagact cctcagtagc tgatattgaa gaggggaagg aaagtcaaga agagatgaca 180  
gagacacang angacagtgt tatggctgat gaagagcctg aagggaagtg aggaagaaaa 240  
taagagtgct ggaggaaaga agaaacgggg gagaaatata aagacagtca aagggaacagg 300  
aaagaagaaa gangaagatg tttgttttat gtgctttgat gggggtgatc ttgtcctttg 360

tgaccgcang ggaancacaa aancctntca acccttcggt ttttaattca ana 413

<210> 3927

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-G2

<400> 3927

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gcggtttatt tgatgagcct gagactactg agggacctgt ttttggacct ccttccaagg 120

ctgaagcctc gggagttggt tttatggcgt tcagcagcga gtctgacct gaagaaatcg 180

atgattcgga tttaccggtg tctgtagaga ggtgtttggg tcatttcaca aaacatgaga 240

tactgtcaga tgacaatgct tggaactgcg agaactgttc aaaagaacct gaaactccaa 300

cggttgagag aaaagcgaaa atccaatgaa gatgaatcga agatnaagca acaccagcaa 360

cggatgggtg aaagaaaatg aagatgaaag gttttggaga aaccgaaatt ttgggctggt 420

aaa 423

<210> 3928

<211> 414

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-G5

<400> 3928

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gagccctcct gttcatcgat ggggaggtct caccacaaca cgctcgggat gtatcactct 180

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taatttgcac accacgaggc tctcttctga tacattagtg gatttttgggt ctgc 414



<210> 3929  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-G7

<400> 3929

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 ggcggctggt ggtggaagca atctgatcaa caaatggaac ggaaaggctt attctcagag 180  
 gtatttcgag attctggaga agaggagaga tcttcccggt tggctccaga aagatgactt 240  
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 aactacacag attccacagt ttgtattaga tgctgtggtg gctgacaact ccgataaggg 360  
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<210> 3930  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-G9

<400> 3930

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 gtgtaccaa acagagccaa ggaatgccat ctttcaccaa gtgcttcata aactcgccgc 180  
 catcatcgat attcacgggg tccaagatcg aagctgagga tggttctccg cttgtgatcg 240  
 agctcgtgga cgccaccaca aacactctaa gttagtacgg gaccgttctc gtcttctcgg 300  
 gtcgagctcg tgccgctgaa cgctgatttc acggaagaaa gctggaccgt tgagggattt 360  
 aatcggaata ttctcaagca acgttnnaang gaaacttccg tttgncact ggg 413

<210> 3931  
 <211> 412  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-D7

<400> 3931

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atcggccgga ccggtttatc gatgtaaata cgctaaagat ggctctctcg atctccctac 180

cgatattgat tctccttggc agttcttttag tgaggctgtg aanaaatatc cgaatgagca 240

aatgttgggc caacgcgtaa cgactgattc taaggctcgtt ccatacacgt ggatcacata 300

taaggaagcg cagcagctg caattcggat tggatnagca atcanaagcc gaggcgttga 360

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<210> 3932

<211> 456

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-B10

<400> 3932

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gttggtggtt ttcccgatga cttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna gaaagggaga ataatcggag 240

gagagaaaga cggagaagag ctgtagctgc gaagatatac actgggctta gagctcaagg 300

tgattataat ttgcctaaac attgtgataa taatgaagtc cttaaagctc tttgtgttga 360

agctggttgg gttgttgaag aagatggtag tacttatcgc aagggatgca aagcctttac 420

ctggtgagat aactggggac ttcaccccca gttacn 456

<210> 3933

<211> 472

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-B12

<400> 3933

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acatgagctc tgtatatccc aaaaggaaac tcttcctga ttttctcaca gatgaaatct 180
ttaagagtca tcgacatgtc ttgggaacca cttcaccggt agcttccctc tctctatctt 240
caatctcact gacttagagt atctcaattt caatgagaat ccagagcttg atctatggga 300
ctctaccgga ttctgtctct aagctgacaa agctcacaca catgctcttg atgacgtgta 360
tgctccatgg taatatccca agattcattg ggaacttgac ttctcttggt tgatctgaac 420
ttaacgggaa antcctcccc cggngagaat tccaaaanga aattagggga ac 472
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<210> 3934  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-B2

<400> 3934

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acgaagctaa accctcaatc ttccccactc attttcactg gtacacttcc tctcttgctt 180
cactcacctc ttctctccc tccattatcc acacatacga caccgttttc catggcttct 240
ccgctagact cacttcacaa gacgctagtc aactcttaga ccctcctcat gtcactctctg 300
ttaacccgga acaagtccgt cacttgcaca caactcggtc ccctgaagtt tcttggtctt 360
angtccaccg acaaagcggg tctactcgaa agagtctgat ttcgggtcgg gatctaagtt 420
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<210> 3935  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-B5

<400> 3935

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tgggcaatct cctgtttctc cacaccctat tgataatgat tcgtatgaga ggattgtgtt 180  
gtgcataaaa ttgctttgcc ataggaatga tgagatgaaa aagatatggg tagaatcctg 240  
ccgccagagt tttgtcaaga tgatttctga aaaacagctt agagagatgg aggaactgaa 300  
ggcgaagacc caaacaacgc atgctcaacc tgatgatcta attgacttct tccatctaaa 360  
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<210> 3936

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-C1

<400> 3936

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tcccaccaa gacagaagat ggagtcgaca atctctttga gagaatggat cgaatggttg 180  
cttatgggcc aacgttttgc gatatcactt ggggagctgg tggatctacc gcagatctaa 240  
cgcttgatat agcttcgagg atgcaaacg ttgtttgtgt tgagagtatg atgcatctta 300  
cgtgtactaa catgcctgtt gagaagattg atcatgctct tgagactatt agatctaattg 360  
ggattcagaa tgtgcttgct cttaaagggtg atctctctca tggatcaagat aag 413

<210> 3937

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-C12

<400> 3937

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aagagcgata acacaaagtt ctacgagatc cttggtgttc ctaagaccgc agcaccagaa 180  
gatctcaaga aagcttataa gaaagccgct atcaaaaacc atcctgataa ggggtggtgat 240  
cccgaaaagt ttaaagagtt agcacaggct tatgaagttt taagtgatcc tgagaagcgt 300  
gagatctatg atcaatatgg ggaagatgca ctcaaggaag gaatgggtgg tggaggtggt 360  
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aagtcataac ccgggggaaag gaggcaaagg ctttggttaa 460

<210> 3938  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-C4

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atcacttcca tggctatcgc ttcaagggtt tcgaatctgg aatctcaagt ctccggcttg 180  
agacagaagc ttcttgagaa ggatcggctt gttcatgaac ttgaagacag agtctcttcc 240  
tttgaaagac ttaccatga agctgactcg agtttgaaga atgttgctga tgaaaatatg 300  
aaactgactc aagaacgaga ttactggca atcactgcga agaaactcgg tcgtgattat 360  
gcaaagttgg aagcattcaa gagacaattg atgcagtcac tgaatgatga taatcca 417

<210> 3939  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-066-Q1-E1-C6

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aaaacatctt cgtcatgcgt cacggtgata gaatcgacaa ttctgagcca ctctgggttt 120  
caaccgccga gagaccttgg gatccacctt tggttcaaga cggtatgatt cgagcgtttc 180

gaaccggtca aaggatccga tctcagatcg ggttcccgat tcaccgtgtc ttcgtctccc 240  
ctttctccg atgtcttcag acagcttccg aagtcgtcgc agctctatca gccgtcaatg 300  
tcgatacctaa cgccatgtct tccaaagacg tcccttccat tgataaatct aagctcaagg 360  
tttctattga attangtttg tgtgagatgt tgaactcagt ggctataagg ngtga 415

<210> 3940  
<211> 416  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-066-Q1-E1-C8

<400> 3940

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acggcgagtt tcttgggtccc accataaaag ccttcgcccg agacaccatc gtcgtcaatc 180  
tcaccaacaa actcaccacc naaggccttg tcatccattg gcatggaatc cgtcagttcg 240  
gaagtccatg ggcagatgga gcagcaggag ttactcaatg cgcaattaac cctggagaga 300  
cttttaccta caatttcact gttgaaaagc cggaacaca tttctaacat ggacactatg 360  
ggcatgcana gatcagctgg gctatacggg tcgttgattg tggacgtggc taaagg 416

<210> 3941  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-066-Q1-E1-D10

<400> 3941

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aacagcccaa ggaatcagaa aaaccgcgtc gaagagcaga gaaggaggaa gtggactaca 180  
tgagagagc tcagtggcta agagctgcct tgcttgagc caacgatggc ctggtcacaa 240  
gtcgtcgcg taatgatggg tgttggttcc atccaaagaa gacgtccaag caatgcttct 300

cgttggtttt gccggccttg ttgcnngtgc ttgtagtatg gctattggag agtttgtgtc 360  
 tgtgtgcacc caaagggata ttgaaactgc acagatgaag agagctattg aacataagac 420  
 atcactatca gcaatcgacg aacaaagang gaaggaagag aaagaaanga aaagggctgc 480  
 ca 482

<210> 3942  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-D12  
 <400> 3942

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 tctctctctc tgtctgtgtg tgaagtgaga ggatctttgt ttggttctgc aatcataatt 120  
 tcgtgatata ctaaaaaaaa tgcaatttcc tcttctctct tataagcaga gaccctacta 180  
 ctctttgatc gaattttcct tgctctcttc tctttgttct ctcatgtttt tttctcccta 240  
 aatttatggg ctttgctctc tctctaagcc acactcacac tctaaagcac tcgtctttct 300  
 tcttcttttt cttcagaaac agttattttg acttgaaaaa ccagagcttt aatcctggat 360  
 tcatggcaaa aagagcatta cttttctttt cctctctcac tttcttgttt catttggtt 420  
 aaaaattcaa tgataatttt ggaattgggg ggaaaaaa 458

<210> 3943  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-066-Q1-E1-D2  
 <400> 3943

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 aaaaaaccat gcattcactt ccggtgaatc tcgtctcac cgtacttacg gtgttcctaa 120  
 catcaccggc gcaagttatc ggataccgtc catatccacc aaaaaccaac ggctccgatc 180  
 aaatcttoga cgcttcaaaa aaattcgaag gctcatcgaa tctcgtccgc ctccgttacc 240  
 acatgggtcc agtcttaacc aacaacatca ccgttcaccc aatctggtac ggcacgtggc 300

aaaaatccca gaagaaaatc atccgtgagt tcattaactc aatctcagcc gttggattta 360  
aacacccttc agtctccggt tgggtgggaaa accgtacagc tttaactga ccaaaactgg 420  
ga 422

<210> 3944  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-066-Q1-E1-D5  
<400> 3944

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caacggagaa accaaataac aagcacgcgg ctgattcggt ttccagcgag gatttgggtct 120  
cacgcggaga aaccaaataa caagcacgcg gagatcaatt atttttatct tcgtagaatc 180  
tgattgaaat attaagaaaa aagagaaaaa agagaggaaa agagcaaagt aagtaggata 240  
gatggctagt gtccagcaaa atgggcaacg gtttggcggt tcagaacctt tctctatggg 300  
aggaccaacg gagtttgatg tgatcaagac aagagagctc gagaagcact tgcaagatgt 360  
tgattgtac gagagcaagg aggaagctgt tagaaggag gaggttctgg ggat 414

<210> 3945  
<211> 416  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-066-Q1-E1-D6  
<400> 3945

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tgtatagatc tctgtggttt tcttggccaa atctagttag atctttttgg tttctcgaat 120  
tcgatgaaaa tgagacgagg caattcaagt aacgaccatg aacttgggat tctacgagga 180  
gctaactcgg acaccaactc ggacacggag agcatcgcta gcgaccgtgg tgccttttagc 240  
ggtccgcttg gccgcctaa acgtgcgtcc aagaaaaacg caagattcgc cgacgatctt 300  
ccaagagaa gcaatagtgt tgctggcggc cgtggtgatg acgatgagta cgtggagatc 360  
acgctagaca tcaggagcga ctcggtggcc gtccataatg tccaacaagc aagctg 416



<210> 3946  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-A9

<400> 3946

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nnnnnnnnn nnnnnnnagg ttgcaaaggc ttcttcgagt ggacagaaga agaaggacgt 180
caagaaggaa acgggtctcg gactcagtgt taagaaagat gagaacttcg gggaatggta 240
ttctgaggtt tgtaaacaag atatgattga gtactacgat atctctggat gttatattct 300
acggccatgg tcaatggcca tttgggagat tatgcaaatt ttctttgatg cggaaatcaa 360
gaaaatgaag gtcaagaatt gctatttccc tctgtttgta tctcctgggt gtcttaaaaa 420
angagaaagg ccacatccaa aggaatcccc ccctaagggt tccttnggtt          470
  
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<210> 3947  
 <211> 392  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-065-Q1-E1-G10

<400> 3947

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ttcagttgtc agtttctccg ccacataatc tctacccgac acacttttat cttcccctcg 120
ttgctcctct actccacttc cacctccgga gataggtaac ttcgtcgtca angtcgagac 180
cccgataacg ttggaggaag agtcggctgt ttcagactan cttagtgggt tatctaatta 240
ncagtccaaa gttactgata ccaccaaaga agaaactgga ggagtaccgg agattgctga 300
gtcttttggg aatatggaag tgactgatga gtctcctgat cagaagccag gacaatttga 360
aagagacttg tcgacgagaa agcaaagaat tt                                392
  
```

<210> 3948  
 <211> 388  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-G11

<400> 3948

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tgagatcagg gactcgggaa acatggacag catcaagtca cactatgtta ccgactctgt 120
ttccgaggaa cgccgctctc gtgagctcaa ggatggagac catcctttac ggtacaagtt 180
ttcgatatgg tacactcgtc gcacaccagg ggttcggaac cagtcttatg aagataacat 240
caagaagatg gtagaattca gcacggttga aggattttgg gcctgctact gtcaccttgc 300
tcgttcttct ctcttgcta gtccaacaga tcttcatttc tttaaggatg ggattcgtcc 360
attgtgggag gatggtgcca actgcaat 388
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<210> 3949  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-065-Q1-E1-G2

<400> 3949

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ataaacagag ggagtcgcca aattttctca tcattttctc gagaaaatag actaaaagcg 120
attcccgaga gaaagaaaga acaaaaaaaaa aacatccgag tgaaaatgag agaaattctt 180
catattcaag gaggtcagtg cggaaccag atcgagcta agttctggga agttatttgc 240
ggcgagcacg gtattgatca aaccggtcag tcatgtggcg atacagatct acagcttgaa 300
aggatcaatg tctattttta cgaagctagc ggaggcaa atcgttcctcg tgctgttctt 360
atggatctgg agcctggaac tatggattct ctcagatctg ggccgtttgg gtcagatttt 420
ccggcctgat aacttcgttt ttggtcagtc cnggtgctg 459
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<210> 3950  
 <211> 411  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-065-Q1-E1-G3

<400> 3950

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gaaagatgga taaattgaag ccaataatag caatcatatc actccaattt ggatatgcag 180
gcatgtacat cactactatg gtctccttca agcatggcat gaaccattgg atccttgcta 240
cttaccgaca tgtcgtcgcc acaattgtca tagctccttt tgctctcatt ctcgagagga 300
aaataaggcc taagatgaca tggccattgt tccttaggat tcttgccctt ggattcctag 360
aaccactttt ggaccaagaa cttgtactac atangaatga aagccacgtc a 411

```

<210> 3951

<211> 405

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-G4

<400> 3951

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gttaggcatg aaggagatcc tgattttgaa gatggtgatg atgctgattt tccaatgatg 120
gatgagggaa ggcagccatt gtctaggaag ataccaatca aatcgagcaa gataaatcct 180
taccggatgt taattgtgct acgtcttggtg attcttggtc tcttctttca ctaccgtatt 240
cttcaccccg tcaaagatgc atatgctttg tggcttattt ctgttatatg tgagatatgg 300
tttgctgttt catgggttct gatcagttcc ctaaattgga ccctatcgag cgagaaacgt 360
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<210> 3952

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-065-Q1-E1-G5

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gttggagaac gtggtgttca actctcaggt ggacagaagc agagaattgc aattgctagg 120

gcgatgttga aagacccaaa gattctgtta ctagatgaag ctacaagcgc tcttgatgct 180

agctctgaga gcattgttca ggaagcttta gacagagtca tgggtggggag gaccactgtt 240

gttgttgctc atcgtctctg caccatcaga aatgttgatt ccattgccgt gatacagcaa 300

ggccaagttg ttgaaaccgg aacacatgaa gaactcattg ccaaatccgg tgcttacgca 360

tccctcatca ggtttcagga aatggtttgt actcgagatt tctcaaacc gtcaactcgt 420

cgcactcgtt caaccggtt gagccattca ctgtcaacga aatcactc 468

<210> 3953

<211> 405

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-G6

<400> 3953

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aaagcttcga aaagcgatga tgggttttgt tcagcgcctt cgattgttga atcggatgag 180

aagacgaacc ccattttattg gaaagccacg aatccaacac tctctccttc acacctccaa 240

gacttgcttg gtttcacacg aagtgtatac aaacgagatc atgcgttaat aacaccggaa 300

agtcatgtat acagcccttt acctgactgg acaaacacat taggggcgta tttgatcaca 360

ccggcaacgg gttcccatth ttgcatgtac ttggcgaaaa tgaaa 405

<210> 3954

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-065-Q1-E1-H2

<400> 3954

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gtcatcactc accaaacaac tctcatcaat ataaagagaa gagagtggta gagttatata 120  
 ttacacacat aaacttagat atagtagtgt tatattcttg attaagtaat aaagatgaaa 180  
 ggtggaagca tggagaaaat taagccgata ttggcgataa tttcactgca atttgggtat 240  
 gcaggcatgt acatcatcac catggctctg ttcaaacatg gcatggacca ttgggttctt 300  
 gctacatacc gtcatgtcgt agccacggtt gtcatggctc cctttgctct catgttcgag 360  
 aggaaaatta ngcccaagat gacactaagc aatattctgg aggcttcttg ctcttgnat 420  
 attagagccc ctcatggacc anaatttgta ctacatagga 460

<210> 3955  
 <211> 406  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-065-Q1-E1-H4

<400> 3955

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 nggggtctcc ctcttcttcc tctctctctc cgccttctc gtcgagatcc gcgtcgagac 180  
 ttctccgttt cttctctctc atttcagctc cagacgcggt gcgtcttcag ggatattact 240  
 aggagctgtg acacttcctt ctgttatgat atctaagtta gttcagcttt caagagctat 300  
 ttcaatccat gaagctgaac aagatgagct tgcacatgtg acaatgcagt attgggcagc 360  
 atcgggctaa ttgttgtgct atacttatat atcgatcagt gactat 406

<210> 3956  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-065-Q1-E1-H8

<400> 3956

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ttggtgttgc agagcctact gttataatgt acaccttcat gttcaatttt gctaaaagta 180  
gaacggattt gggctctaata ctctttctag cgtggaccgg atgggtttgc ttgtggacgg 240  
ggctgttggt gttcttggtta gctgtattag gcgcttgac cttcatcaat cgattcactc 300  
gacttgctgg ggaactgttt ggtactctaa tagccatgct tttcatgcaa gaagccatta 360  
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caacctgctt ggggtgttgc a 441

<210> 3957  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-065-Q1-E1-H9  
<400> 3957

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cacctgatcg gtcgggtgg tcccagcgga ttcgggtcaa gatccaccgc cgatcatgtc 180  
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ggagctgaga cggcgcggtgt tcttgctaag cgtggcgcaa gacttggtgt tccggctaga 300  
agcgtcaaaa ccgccgagga aacaaaggct cgtatactgt cggaagtttc ctgatgcgga 360  
gatcatcggt atgcattctg atctcagctc acttacctct ggtccgtccg attcgtggac 420  
gatttccaat ctcncaatcc t 441

<210> 3958  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-066-Q1-E1-A4  
<400> 3958

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tgacgaagga aaccagtcac cggaagattt ctccgtanac ctcaacgccg gcgaanatga 180  
 cggtgacgaa gacgacaata ataacaattc tgaagataac aaagcttttt ggcaggaaca 240  
 cgaacaactt cttcagggga cactgtatag gacaagttcc attgagacaa agattagaca 300  
 agctacaaaa gaagcggtga aacaagttaa atctaagggg tctttattgt gtttgccggc 360  
 gaccagtggg acggcggttg cggagttgc ntacgtggcg aanatctcta gacacctaag 420  
 a 421

<210> 3959  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-A5  
 <400> 3959

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 ctatttctct cttcatacat atctcaagca gataaagttg atcggatact agaatgggag 180  
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 gtgctgatag gaaggttcca ttcagagaga aggttatcta cactgtcctc tctctcttca 300  
 tctttcttgt ctgcagtcag cttcctcttt atggaatcca ttccaccacc ggtgcggatc 360  
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<210> 3960  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-066-Q1-E1-A7  
 <400> 3960

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aagcacccaa atccagtttc tcactgttga agctagaaaa caatctagaa gaataagacg 180  
cgagcgctcc ttcagccctt ttccagtact tattcaatcg aaccgtcgtc ttcgtcatgg 240  
tttctcagag ctcaattcga gttttgatcg ttccaacagt ggagaaactg gttccgatac 300  
cactcttaaa gatggtgaag aagtgaggag tgaaagctct tcaggtgttg gtgatagcta 360  
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<210> 3961  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-065-Q1-E1-G1

<400> 3961

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tattagacaa gcaaatgtcc ttatctctct aaagcaaagt ttgattcct atgatccttc 180  
tcttgattca tggaacattc caaatttcaa ctctctatgt tcttggactg gtgtttcttg 240  
tgacaacttg aatcaagtct attactcgtc tagacctatc taatctcaac atctccggca 300  
ctatctctcc ggaaatatct cgtctttcgc cgtcacttgt ttttcttgac atttcttcta 360  
acagtttctc cgggtgaagct tcctaaagag atctatgagc tctcangcct 410

<210> 3962  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-A8

<400> 3962

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ccaaactaag ccgagcaagt ttccctaata ggtttgtgtt tggcacagct actgctgcgt 180  
ttcaggttga aggtgcaatt aatgaaactt gtcgtggacc tgctctatgg gatattctct 240



gtaagagaaa tccagagaga tgtagtggcc acaacgccga tgtggccggtt gatttcttcc 300  
 atcgttataa ggaagatatt caactaatga agaactctaaa cacagacgca ttcaagactc 360  
 tcaatcgcat ggtcaagaat atttcctcat ggggaaaaaa ggagaaaggg attgagtca 419

<210> 3963  
 <211> 391  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-064-Q1-E1-C12  
 <400> 3963

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 agcaatcata gcaaagatgc tctccatcaa gcaacaagga acccctaaat ccgagaatcg 120  
 agaactcctc actcagatgt ttctcaactt catcaatctt cgtcaagcga atcgctcgat 180  
 tcttatagaa gaagagaaag tgagaacaga aacggaaata gcaaaatctc cgggtggattt 240  
 cacgacgttg gagcttcaca atctcatgta tgagaagagt cattacctca aagctaataa 300  
 agctagtaga gatttcanat ctangtatcc aaacatcgat ntcatatccg aacaaagact 360  
 tcttcagtga tgctcccga agcaatcaaa t 391

<210> 3964  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-064-Q1-E1-C2  
 <400> 3964

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 ttctcttctt caacaggatg atagtcttaa agcaattgct tcttctttgg agaattgattc 180  
 tttatctatt acccaattgg ttagagagat ggagatgtat ttgacaacaa ccgataacct 240  
 cgttcgagca cgaggatctc tcctgcttgc ggagattctc gattgtttga aagcaaagcc 300  
 gttgaacgat acaatagttc atacgctcgt tggattcttt tccgaaaagc tggcagattg 360

gagagcgatg tgcggggcgc ttgttggttg tttggctcca ctgaanaagg aaagatg 417

<210> 3965  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-064-Q1-E1-C4

<400> 3965

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tctcagtcctt cttcttctgc tataacgctc ttctccatca ccgtataatc gagtttcgat 120  
tgtctccgac gaagagaagc tgacacttct ggtttcgtca atttctactg ggataaagct 180  
ctctactacc tttttgctca gagaaaatgg tttgattttc gaggatgata aaggcttcag 240  
gttgtttag aggtgttttt gccagccttg gtgctggta tggattttat ctgactatcg 300  
tatgtgcctt tgatgaaact aaataatgcc ccggggagag ttagctatgg gctctttaga 360  
agactgtttg ttggcttaaa ggctgcctgg gtttaacgnc ttctggtaat 410

<210> 3966  
<211> 397  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-064-Q1-E1-C5

<400> 3966

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gcttcctgaa ggaaaatcaa cagattctca gaatgttgca cctgttcaag atcattcatt 180  
atctgatgca gagagaatcc aacgagagat tgcagcaacg tctgtgcagg ctgcgtttag 240  
aggttacttg gctcggcgtg ctttttgggc actcaaaggc ataataaggc tacaagcgct 300  
tatccgtggt caccttgta ggagacaagc tgttgcaact cttttctctg tcatgggaat 360  
tgtcaggttg caaagcattt gctcnaagga agagaga 397

<210> 3967

<211> 393  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-C9

<400> 3967

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cgtggctatt agttggcatg ccaaacttg tcaaggcgtg gaatattgaa accaatgctg 180  
accagagtct aagtggacct gttggccaag tctattctct tgttggtgggt actgatctgc 240  
tctttgctgg aacacaggat ggctctatct tggcatggag atataatgct gccactaact 300  
gttttgaacc atcagcgtca ctgacgggcc atacacttgc agttgttacc ttatatgttg 360  
gggcgaacag actttattcg ggttccatgg aca 393

<210> 3968  
<211> 412  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-064-Q1-E1-D1

<400> 3968

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gcgtcaagat cggagatccg taccgttggt tagaggatcc tgatgctgaa gaagtgaagg 180  
agtttgtgca gagccaagtg aaattgacag attctgtact tgaaaagtgt gaaacaaagg 240  
agaagctccg tcagaatata acgaaactta ttgatcatcc tcgttacgat tcaccattca 300  
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atatgcagga taatccggat gctgaaccaa naaggtttgc ctgattccga ac 412

<210> 3969  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-D2

<400> 3969

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aatcttcagt ctcagccttc aaacatttct cattttcttt gcacctcaaa gaaaacgctc 120  
atccagaaaa gttttactct ctttcatttg gtcagcttac cttcttgctg attggtctgc 180  
caatttcgcc gccggacaaa tctcagatag tcaaggagat gatccagaac ccggagaacc 240  
gaaaaagagc gccgagttgt ttgctttctg ggttcctttc ttgctcttgc atctcgggtg 300  
tccagataca atcaactgcc ttgcccttga agataacgag ctctgggtca agcacttgtt 360  
gggtcctttc tttcaatcaa gttgcaaacc gtttacgttg ctttttgcaa gtncg 415

<210> 3970

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-D5

<400> 3970

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gctcaatacc tacgtcgggt cgagccgggt tggcaaacgg ttcaaactcg ccgaacgtaa 180  
ttcaactttc acgacggagc tccgtgctgg taccgccact ttcttaacca tggcttatat 240  
cctcgccgtc aacgcttcaa tcctttctga ttccggtggt acttgctctg tttccgattg 300  
tatccctcta tgctcaaacc cagcgatcga accttcgcag tgtaccggac cgggtctccg 360  
attaatccaa cccgacgttt cctgtaaaat caaacccggt taatcctg 408

<210> 3971

<211> 401

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-D8

<400> 3971

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ccgtatctag gagctccctc agatctgtgc ttaattctcc ggtaacatta cggcatcac 120  
 tgggattgct gatctggaac cgctgtgaaa ttttaggttt tctctgagaa gacaggcaag 180  
 tttaacgatg gcggcgaaga cggccaagat caaaagctac gccgacgaag gaaaatggtg 240  
 tcagagtcga ggaaggattg agtctgttca agtctgataa gttcgatgct gatgcttatt 300  
 tgcaatccaa atgttctatc aacgagaagg atataaaagc agttatgctc gtatcctatt 360  
 gggatttgaa gaagagcatc tgctgaagaa atgcgggcga a 401

<210> 3972  
 <211> 392  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-064-Q1-E1-E10  
 <400> 3972

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 attctaaggg gaaggtgtta cctgaaatga ttttgatatg ccagaatctt cgtaataacc 120  
 ttcagcatcc taatgagtac atccgtggag tgacactgag gtttctctgc cggatgaagg 180  
 agactgaaat tgtggagcct ttaactccat cagtgttaca aaatctggag catcgccatc 240  
 catttgttcg caggaatgcc attctggcca tcatgtcgat atataagctt ccacaaggcg 300  
 accaactctt tgtggatgcg cctgaaatga tcgagaaagt tctatcaacc gaacaagatc 360  
 cttctgccaa agagaaatgc atttctaattg cc 392

<210> 3973  
 <211> 391  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-064-Q1-E1-E12  
 <400> 3973

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 tggaacgaat ccttggcctt tcagtgatgg tgtacttttc tttgatagtt caactggaga 180

agaagaagag aaatctccag tttctggtgg tgaaggggtt cctgatacgt tggagcattg 240  
tagtgatgat gaaagatttg ctattgtcaa gtatgataac aacaaaacaa atggagataa 300  
tgtgcctgct gcagttactg atgatgaacc tagtcacgct gcagatgatc tgctaatttc 360  
tggtgtgctg atnaaggaga gaactcctga t 391

<210> 3974  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-064-Q1-E1-E2  
  
<400> 3974

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tgaaaccgca actgaaagag ctgaagcttt cctctttggc tggatgttaa agcctttggg 180  
anttggggat tatccggata taatgaagag aaccttgggg tcgagattac cggttttctc 240  
agaagaagag tcaaaacaag tgaaaggatc atctgacttt gtaggagttg tacactacaa 300  
cacattctat gtcacaaacc gaccgcacc ttctctcggt accagcatta acaaactctt 360  
ctttgcagac attggcgcat atccgatccc gctggggaat gtcataatc 410

<210> 3975  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-064-Q1-E1-E6  
  
<400> 3975

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cgttgtcaaa ttccttaaat ttcgttacia aggtttgata tttccgatga gatctccagc 180  
aaagacgatg ccgtcgatgt caccttcttc agtttccacg gagaaatctc cacctccgtc 240  
agatacttca atggctatag tagctttcga taactccact actcattctt cttcttctcc 300

atcgccgcca cattctcttg atcattccag tgaatcggag aaggaagatg cgaaaagtaa 360  
 acccgagagt agaagaaaca agaatcctgg aaangttgaa ggaaactcc 409

<210> 3976  
 <211> 404  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-064-Q1-E1-E9

<400> 3976

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 ctgttggtga cgatggcaaa acctacttgc ctggccaggc aaacaattgc tacattttcc 180  
 ctgggtctggg tcttggtttg atcatgtctg gggcaattcg tgtccgtgat gacatgctcc 240  
 tcgcagcttc tgaagcattg gccgcacaag tgacangaag agcattacgc caatgggtctg 300  
 atctaccccg ccattctcaa acatcaagag agatctctgc naacaattgc agcctgtgtc 360  
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<210> 3977  
 <211> 393  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-064-Q1-E1-C11

<400> 3977

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 cggaggttct tcttcccaga tcagtgatat ggaagaagtt ggtcttctcg attcgtatca 180  
 caacnaancg aacgccgatg atattttgac taaaatcgaa gaaggaagag atgtttccgg 240  
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 tgaagcagct ttgatgaacg ttaatggcgt cttcaaagcc tctgttgctt tgttacagaa 360  
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<210> 3978  
 <211> 374  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-F10

<400> 3978

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 ttcgtttatg agctatgatt atattctcag aacttttggga tcaggagttg ctgatcttgt 180  
 ggaaggggtc tctaagctga gccagttaag taaacttgct cgggagaaca ataccgcttg 240  
 taaaaccgta gaagcagatc gtttgcacac tatgtttctt gcaatggcag acgccagagc 300  
 tgttcttata aagttagctg atcgggttaca caacatgatg actctatatg ctttgccacc 360  
 aatgaagcgg caaa 374

<210> 3979  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-063-Q1-E1-H7

<400> 3979

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 ttgcactagc ttccatattt tcaaccaatt ccggtgccgg ccaaggactt tccctaggtg 180  
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 taagtgtgt attgggcgtt gacggtgttg ccttcaccgc ctccggatgc tccctgcctc 360  
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<210> 3980  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB22-064-Q1-E1-A1

<400> 3980

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ctcaatgcgc aaagggatga tatggagaat ctgcacctag gagtagatgg tggtgaccat 180  
cctctgaaga taagcgatgt caacggtgat acatcgaact ctggttaccg tagcgccatg 240  
tcaacactct ccaacgtccg tgaccgctc tcgccgccac cgaccgttat gattccagct 300  
gattctgatt cactccttgc gccatcctcc tacgaagatt tccgcagcag cttcagctct 360  
aagccgatna gcaagcgata actcccnaca tccgagcctc cgtcggtatn gcaaa 415

<210> 3981  
<211> 422  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-064-Q1-E1-A11

<400> 3981

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ggaagaagtt ggtcttctcg attcgtanca caangaagcg aacgccgatg atattttgac 240  
taaaatcgan gaaggaagag atgtttccgg tttaaggaag attcaggtcg gagtcaccgg 300  
tatgactgtg cngcttggtc ctaattccgt tgaaacaagc tttgntgaac gttaatgggg 360  
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tt 422

<210> 3982  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-A2

<400> 3982

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tttgtttacc cggtcgtctc tcaactgggtc tggtcagttg atggatgggc cagcccgttc 180  
cgtaccgatg gagatttgct tttcagcacc ggagcgatag atttcgctgg gtccggtggt 240  
gttcatatgg tcggaggtat cncctggactc tgggggtgcgc tcatcgaagg tccacgactt 300  
ggccggttcg ataacggagg ccgtgccatc gctcttcgtg gccactcggc gtcacttggt 360  
gtccttggtg caatcctcct ccgggtttgg aatgggtacg gnttttaacc ccggt 415

<210> 3983

<211> 465

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-A3

<400> 3983

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atcccatcca tggcttggtc tantcactag tgggtgttacc tccctgtgtg gaataaaaag 180  
caagggtttt taatcacttg gattgtttta agatatggca actttgaacc cntttgattt 240  
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gtccaagaaa tctggacagg tttcgagctt gccngctaag tcagctccta agcttccatc 360  
gaagccactt cctcctgctc aagccttgag agangcaagg agtgatgctc cacgtnggtg 420  
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<210> 3984

<211> 308

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-A5

<400> 3984

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tcttaaattt tcttagttgt tgttctctcc tctctctccc agctacgaac atatctctct 180

cttcttgacc atttttaagt ttaagtcata tggagtattt atttcttcac tattttaata 240

ttcggctttg ttgtttgtct ttgatttttg tatcaatcaa atcttttcat caaaaaaaaa 300

aaaaaagg 308

<210> 3985

<211> 390

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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<400> 3985

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ccctcgcgtg ccggttcgtc ctgtacgtgc ctctacgtg aatctctata agtggccgga 120

gtccgacgcc gagttcgtca ggtccgtacg tcgtggaggc ggcctaccgg cggcccgtgt 180

agttgatagc atatcttgct gacagatgta tctccgtagc tacactttct ctcgggaaga 240

cgacgagagc aaatcggaga aggtgtcgtc tgggacgcag acgtcgtgtc tagggagagt 300

taagggaaca gcgtcgtctc gacgtaagag taaggaggaa aatggcatca tcacgttga 360

gagtacaaag ccgcgtcgtc nttggtgaaa 390

<210> 3986

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-A8

<400> 3986

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acgcgtccgc ccacgcgtcc gaacgcaaatt tgggtgttat tgttccatgg agatctgcac 120

acggctttgt tgtgcctcca attttggcgg agcatttgc t aacctttgaa cttgaagcgg 180  
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aagaatgtgg agtactccaa ctctaagtcc tccatTTTTT tggaagactg gttgggacgc 300  
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<212> DNA  
<213> Arabidopsis thaliana

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agagcagtct taaaatgcat agaagaatac aaactcgagg aagaattccc acccgagaat 180  
ctcaagaaga ggttggatca gctagagaag accaaaaccg agaagagaaa accagccgtg 240  
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tgagaatcct attaggatat ctggaagcaa tgaaagatgg tctaattcta ggaaggtttc 240  
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 taatctattg tcacgacagg gcggtctcagt ttacaataac ttgatgctac cgcgttacgg 360  
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 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 ccggggaaca ggtgatcgga atcacggcta tacacgggat atcacgggt gttagctcac 180  
 atgtccatat tgtccgacag aagggttggt taatcgaaac taatcctttg ccgcacggag 240

gacgtggagc tctgccgtct gaaggcggca gcccttccga tctcctcttt ctgcgccgtg 300  
 gcggttccag ctttaacttc ttttccttta ggttttagga gttanggttt gttagtgttt 360  
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<210> 3991  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-064-Q1-E1-B5

<400> 3991

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 gtattaaacg tgctcgatct atatactcaa tgatcttata tgtgtatgat catgtaattt 180  
 ggaagttgaa atgtaaatca tctattcctt ggtaaattat tcttcgattt tttttctgat 240  
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 ttcttgatct atgagattat gtcttaagat ttgccaaatg ttaaagtttg tttgatcttt 360  
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 tgatgagcaa gagaaa 436

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 <211> 389  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 3992

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 aatactagtc aaaatggatg gatggttcta gaagcaggga acggaaaaag cactccaaga 180  
 gacaagttat gcctgccttc ccattcggtg caagttcttt ctaacagtgc atttcaacct 240  
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gaagttcgtc aaaggaatcc tgaggtttcc gtatgataag ctatgtggaa tcaagtgtgg 360  
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<210> 3993  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-063-Q1-E1-H3  
  
<400> 3993

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atcgtggccg tategccttc atcgacgctt ccacagggtca aaacctcacc ttcaccgagc 180  
tatggcgtgc cgtggaatcc gtcgccgatt gtctctccga gatagggatt cngcaaaggc 240  
cacgtcgtcc tctctctctc cccaaactca attttattcc ccgtcgtttg tctctccgtc 300  
atgtcactan gcgcaatcat caccaccacg aatccactca acacttcaaa cgangatcgc 360  
taaacagatt aangattcaa atccaatcct cgccttcaac acatcggcag cttctcccga 420

<210> 3994  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 3994

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ttcatcaaatt ggactctctt cctgatgcga tcttcaata cattctttcc tacctgactt 180  
ctgcaaggga tgtggctgct tgcaactgtg tctccaagcg atggaaagag tctacagact 240  
ctgttaagag cgttgttttc cacaggaatt cattcgaaag catcatggag actgatgatt 300  
ctgactccat cgttcgaag atgatctctt cttctcgtcg tcttgaggag cttgtggtgt 360  
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gaangggtaa ttgga

435

<210> 3995  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-063-Q1-E1-E6  
  
<400> 3995

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caaatatcat ctccctcgac tgtatgacta cttctacttc cgggagcacc tgttaatagt 180  
atgtgaactt ctcaaggcaa acttgtatga gttccaaaag tttaataggg aatcaggggg 240  
agaggtttat ttcactatgc caagattgca gtcaattact atccagtgtg tggaagcatt 300  
gaactttctg catggtctcg gccttataca ctgcgactta aaacctgaaa acataactaat 360  
caaaagctac agcagatgcg anatcaaagt tattgatctg ggggaagtagc tggt 414

<210> 3996  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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gcgtaacca gattggttcc aagttctggg aagtcactctg cgacgagcac ggcactgatt 180  
ccaccggacg ttacagtgga gacactgcag atctccagct tgaacgtatc aatgtctatt 240  
acaatgaagc ttcaggtgga agatacgctc ctctgtctgt tcttatggat cttgagcctg 300  
ggtactatgg ataagtanca gatccgganc gtttggtcag atcttccgtc ctgataactt 360  
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<210> 3997



<211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 3997

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ccgtgtcttc gtctctcctt ttatccgatg tatacagact gcttccgaaa gtcacgcgtg 300
gctctctccg ccgtcgattt cgatcctaac gctacttcgt ccaaagacgt cacttcaatc 360
gatanatata aagcttaagg tttccattga atttggtttg angtgagatg ctgaattcaa 420
t 421
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<210> 3998  
 <211> 407  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 3998

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acacgaagga tgttttggtg gtgacggcta aaggaagttc tgctgagatt ataccctttt 180
tgaagacatg ggtgaatctt ccgatggcta ttgggtttat gttgctatac accaaacttt 240
ccaatgttct ctccaaaaag gctctctttt aactgtttat tgttcctttc attgtcnact 300
ttggagcctt tggtttcgtg atgtaccctc tcagcaattt gattcactct gaagctcttg 360
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 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-063-Q1-E1-F2

<400> 3999

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aagaagatgc agagctcgtc atcatacctt tccctttctc cggacacatt ctgcgaacaa 120

tcgaactcgc caaacgtctc ataagtcaag acaatcctcg gatccacacc atcaccatcc 180

tcnattggggg attacctttt antcctcaag ctgacacaat cgctttcctc cgatccctag 240

tcaaaaatga gcctcgtatc cgtctcgta cgttgcccga agtccaagac cctccaccaa 300

tggaactctt gngggaattt gccgaatcnt aacattcttg aatacntcaa agaaaatggg 360

ttcccatcat naggagaagg tctctccact ctcttgctt cgggcgataa atcgggttn 419

<210> 4000

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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<400> 4000

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cccagatttc gaaattgaat ggcggacgaa ctggaattgt cgccgttggt tccaccgtcg 120

ccgatggctg agccttccga gatcgatctc gaagctggag gacctggtga acaaattcag 180

tgccgaatct gccttgaaac tgatggtagg gatttcattg ccccatgcaa atgcaaagga 240

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gcgtttgcgc actgcacaac ttgcaaggct ccatattatc tgagagttca caagtgctgg 360

agatangaaa tggcggacat tgaaagtttc gcttcnttgg tactcgagac aattta 416

<210> 4001

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-063-Q1-E1-F4

<400> 4001

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tatctcccag gtgttgctcc tcaggatttc nagaaggggtg atganctgaa ggtgaaagtg 180

aataaattaa cttccataaa gactcagctt ccatactcgt attactccct tcctttttgt 240

cgccctangc aagattgtgg acagtactga gaatcttggg gaantgcttc ngggtgagcg 300

gattgagaat gcccatacn cgtttaaaat gcnggangca caaatgtgca aataatctcg 360

ggcccgggtc antcntgatn gccaanncan ctnaangcgt ttaaacgaaa aanatt 416

<210> 4002

<211> 419

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-063-Q1-E1-F5

<400> 4002

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aacagcagac gacgatgaag aaaccgtaac tcaaaaccgt aacggatcta ccaaaaacgc 180

tcgatggacc gtcgaaccgg ttcgtgattc tttccatgtt attcgtctta aaagctgtta 240

cggtaaagtac ttaaccgctt ctaacgagcg gttcttgctc ggggctacgg ggaagaaagt 300

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<210> 4004  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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cctccctagc tcgtcctgac aaccatgtcg aggactctgt aggccgtcta ctctgtcctg 180  
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ccatcangnt tangtcngag ttatggtttg ttaacgaata tgantagtat cnccancgag 360  
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 <211> 402  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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<210> 4007  
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 <212> DNA  
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ttatcaccaa acgctggcaa cgcgttttcc gatgacgttg ctgatttgtg ccgtcgggtt 360  
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<210> 4008  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-063-Q1-E1-G9

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naaaactgat gttacacctt cttccaattc ttctcganca aaagaagaaa cctcanttga 240  
tattaattct catgtttctt tgttanttta gcatctgtga gctttttggt tgaaaagaac 300  
cattatccat gggctatggt tacttattac aataatatga tgatgatgat naagcanact 360  
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<210> 4009  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-063-Q1-E1-H10

<400> 4009

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gcctgaggtt cagagtgtg ataggaaggt tccattcaga gagaaggta tctacactgt 300  
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 <223> unsure at all n locations  
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 <400> 4011

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ttgaggaaca gagatttata tctcttcttg ccttttctct taggcttctc tgatcaagaa  240
tcatcaaagc gagatgatga tgatgttgct tcatcgctg agagaatcat ttagtcaac   300
ccttttacac aaggaatgat tgtgctcgaa ggctcatcag gaatgaatcc tctgcttccg  360
tagcttactg gagtcacgtg aggaaaggtc gtcctcctgc gtccaaggct tccatccgat  420
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487

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<211> 440  
<212> DNA  
<213> Arabidopsis thaliana  
  
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<223> Clone ID: LIB22-061-Q1-E2-G7  
  
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caatggcttc tcgtatcatc aatcattcca aaaagttgaa acatgtttcc gctttactgc 180  
ggcgtgacca tgctgtggca gtccgctgtt tctccaacag taccaccccc tctctcgttg 240  
gaagagaaga tatcttcaag gcccgcctga attattcctc tgtagagaga atttcaaaat 300  
gtggtactgg caatgtaaca atgcttagtg gtatttcaac aacgagcaca aaanctaanc 360  
agcccaatgg caggaccaa actattttaa ggaatttata agctcccaag atgcgatcag 420  
tgagaggatt ttcattccagt 440

<210> 4013  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-G9  
  
<400> 4013

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agaagaacca ttatgtcctt acacgagatt accaatggcc gaccggaatc aagaaaccca 120  
tggcccccgga agaagaagac cctttaaagg tctcctcgcc gtctcatttg gtctcttggt 180  
catcgccttt tacgtcgctc tcatcgccac acacgacgga tctagatcca acgacgaagg 240  
gatcgatgaa acagagacga taacgtcacg tgcacgtctt gctggtgtgt cngagaaacg 300  
taacgatggg ttatggaaac tttccggtga tcggaacacg ccggcgtttg aatggaacaa 360  
tantatgttg tcgtgggaac gaacgngtt tcantttcag cctgagcaaa attgngtgaa 420



<210> 4014  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-H8

<400> 4014

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aaaaccctag atccaagatc agacctaatac taatcgaaac tcatagctga aaaatgaaga 120  
gagatcatca ccaattccaa ggtcgattgt ccaaccacgg gacttcttct tcatcatcat 180  
caatctctaa agataagatg atgatggatg aaaaagaaga agacgggtga ggtaacatgg 240  
acgacgagct tctcgctgtt ttaggttaca aagttaggct atcggagatg gcggagggtg 300  
ctttgaaact cgaacaatta gagacgatga tgagtaatgt tcaagaagat ggtttatcgc 360  
atctcgcgac gggatactgt tcattataat ccngtcggga gctttaagtc ttggcct 417

<210> 4015  
<211> 395  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-A11

<400> 4015

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aaaatttgtg attcatatga tccatagagg atttaattat ttctgttggg gattgctgca 180  
agtttcttta tatgtgaatt ttatttgcca aaactaattt atttgatat acatgatatg 240  
tgagcagaaa tatctgagat agaagcgaaa gataaggaat gtctaaaagg atacattgat 300  
gcgcctttaa gctattgtat ggctaggatt tatccgtcgt tgtgttatcg aaattgtcgt 360  
ttttacaagg gcgcgaaagg tgggaaaatg cgacg 395

<210> 4016  
<211> 423

<212> DNA  
 <213> Arabidopsis thaliana  
  
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 <400> 4016

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ggttcacatc tctgtgaaaa gctcttgacc gagacgccac ataaggtgct tgcgctcgat  180
gtttacaacg ataagatcaa acacttgctt gagcctgata ccgttgaatg gagtggtcgg  240
atccagtttc atcgtatcaa tattaagcat gattcgagac ttgaaggtct tgttaagatg  300
gcggnctctga ttataaatct tgctgcgac tgtactccaa gctgattaca atacacgtcc  360
tcttgatact atctacagca atttcattga tgcgcttcca gttgtgaaat actgttctga  420
gaa                                                                    423
  
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<210> 4017  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-062-Q1-E1-A5  
  
 <400> 4017

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tagcagcaag acttgcattt tggatgattt ctcatctac gaggttcgac agaagactat  180
cttggaagaag aaagccaagc aaaccagaa acaggtaagc gaggagaagg taaccgatga  240
aaagaaggaa tctgcaactg cagagtcagc gagcaaggaa tctcctgcag ctgttcaaac  300
gtccagtgat gttaagggtg ctgagaatgg gtctgttgct aaaccagtca caggcgatgt  360
ggtggcaaat ggttgctaac taagaggatg gtgtcgctca cggcatgggc ataaaactga  420
ctagagatga agatatg                                                                    437
  
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<210> 4018  
 <211> 432  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-062-Q1-E1-A6

<400> 4018

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cgtttgaaat ctcttatatc acggtttaat aacgccgtgg tatttactgt tacgactagc 120
tcgccggaga agaagaagaa tgaaggagga gaagaaagac gacggagtaa tggctgagga 180
gaagccttac atgttctgga tttggacttt ggcttctacg attttccgat tattcctgat 240
cttttccccg gcaaataatca acctatcttc ccgtccggag gtctccaccc ctacaccag 300
ccttcgccgc cttgctgaag gttactggtt gaagcagtca tcaactgtgc catacgcagg 360
atcaatgtat catggctctc cattgctact ctccattcct cggtcntctc acagttcaga 420
ggatcgangg gc 432
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<210> 4019

<211> 316

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-062-Q1-E1-A8

<400> 4019

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tcgctaaaga gtcagcagct taagagattg attcagatct ttcattgctta atacttctct 120
tttttttcct gacaataacg aaaaaaaaaa accaatgcgt gcgactctcc gaccaaacgg 180
aatctgagtt ccgtaattat agtttctttt gggttcaaatt ccatgagagc tggcaagatg 240
atactgaaca gatccattca ctgttaatca aatttttggt tggtttnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnngg 316
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<210> 4020

<211> 395

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-062-Q1-E1-A9

<400> 4020

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tctcgtgtta agaatactga tacaaaacca tttaacttca catttgcctc tcaccctac 180

ttcgtgttt ccaatatcag tgaaatccat gtcgaaggat tacacaactt ggattacctt 240

gaccaacana agaacagaac acgtttcact gatcatgaga aggttataac tttcaatgct 300

caacttgaca ggttgtagct aagcactcca gatcaactaa gaatcgtgga ccataagaaa 360

aagaagacta ttgttgtaga caaggaggga caant 395

<210> 4021

<211> 410

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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<400> 4021

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tcatcacctc ctctgtttca gctaatttcc aaagagacgt tgagatcact tggggtgatg 120

gtcgtggaca gatcaagaac aatggagagc ttctcacttt atctctagat aaatcctctg 180

gttctggatt ccaatccaaa aacgagtact tgtttggtaa agtctccatg caaatgaagc 240

ttgtccctgg aaactccgca ggaacagtca caacacttta cttgaaatca cctggaanag 300

gaagggacga tatagatttc gagtttttan ggaattcaag tggagaacct tacacacttc 360

acacaaatgt ctacacacaa ggcanaggag acaaaggaac aacaantcaa 410

<210> 4022

<211> 434

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-062-Q1-E1-B5

<400> 4022

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atggtgtcaa gatcttgtgc taattttcta gacttatcat cttgggacct tttagatttt 120  
cctcaaactc cacgaactct tccacgcgtc atgactgttc cgggaatcat caccgacgta 180  
gacggtgata caaccttcga agtaacttct acctccggtg gttcacgtga gaggaagatc 240  
attgtagcta acatgttacc actccaatct aaaagagatg cagaaactgg taaatggtgt 300  
tttaactggg acgaagactc tctccagtta caacttagag atgggttctc ttcagaaaca 360  
gagttttctct acgttggatc acttaacgta gacatcgaaa ctaacgaaca agaagaagtt 420  
tcacangaag cttt 434

<210> 4023  
<211> 432  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-B6

<400> 4023

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ggttctaagc ataaccacc agggaataac agatcgagaa gtacactatc tctactcgtt 180  
gtggttggtt tatgttggtt cttctatctt cttggagcat ggcaaaagag tgggtttggt 240  
aaaggagata gcatagctat ggagattaca aagcaagcgc agtgtactga cattgtcact 300  
gatcttgatt ttgaacctca tcacaacaca gtgaagatcc cacataaagc tgattccaaa 360  
cctgtttctt tcaaaccggt gtgatgtgaa gctcaaggat tacacgcctt gtcaagagca 420  
agaccgagct at 432

<210> 4024  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-B7

<400> 4024

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ctccgacgta accatggata gcgatactct ctccaggatta ttggaaaacg tcgccaaaaa 120

attccccgat cgccgagctc tctccgtttc tggaaaattc aatctcactc acgcgcgtct 180  
tcacgatcta atcgaacgcg ccgcttcacg ccttgtctcc gacgctggaa tcaaaccggg 240  
cgatgtcggt gctctcacct tccctaacac cgtcgagttt gttataatgt ttttagcggg 300  
gataagagct agagccacgg cggcgccgtt gaacgcagcg tacacggcgg aggaatttga 360  
gttttacctc tccgattcag attcaaagct attgttaacc tctaaagaag gaaacgcacc 420  
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<210> 4025  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-061-Q1-E2-G11

<400> 4025

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tgtggagata gttagagaga tttatgagat ttcaagaggg gttattataa cgcacgcatg 180  
gtgttcgacg gaaagccgca gagaagtttt gttgctatcc gatttgactg agactcaaag 240  
tttgaaaatt gttacttggg tattgagaaa gctaaccttg ggcaagttcc gtatatgagt 300  
tgggagtaaa acgacggtga tacatttgac tgtttttcaa ctaaactaac tttgaaatgg 360  
tgagccttgt ctgtttcgaa taagagatac acttaacata caccaaagtg gggaagttaa 420  
gtcaacctag agaa 434

<210> 4026  
<211> 368  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-062-Q1-E1-B9

<400> 4026

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncaa aagtgcagtg aaaacaccag 180  
 gtgtacctgg cgatgaaacc acagagaagt taccagatga gagtgggtgtt gaaccactg 240  
 agaactcacc aaangctagt ggcattgaac ccacagagag ctcacaaaaa gcgagtggga 300  
 gctgaagtaa ctggaaactt gagagattcc gatcctgctg aatctcatgc ggatgctaaa 360  
 agctcnga 368

<210> 4027  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-E11  
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 aagcctttga atcactctca tgatttacca gcgccggatc aaaacggaga gacttatata 180  
 tgtagctgca tgatttactt gogaccacg aatgggtgca agcttctaata gaagaaatgg 240  
 agtgaggaac ttcagtccca agcttgggtct gagtcaatcc gttttaaaagc caaatgatca 300  
 gccngettt naaccttggga acttaanaaa ncagccanca angtnanttt tggggncctnc 360  
 aacgttcaat tntccaaat cnanngcatn aaatcctcct aagnaacctt 410

<210> 4028  
 <211> 434  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-E2  
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 ccagagctct cgggtcgat cttgtttcat tcgatcaagc tatctccacc gccgatttcg 180  
 tctccctgca catgccttta actccggcca ccaaaaaggt cttcaacgac gaaactttct 240

ctaagatgaa gaaaggtgtg cgtctcatta atgtcgctag aggtggcgctc atcgacnagg 300  
atgcactcgt tagagctctc gatgccggaa tcgttgctca ggcagcatta agatgtgttc 360  
tgtgaggaac caccatcgan aagatagcaa gactaantca gcatgaanaa tgttactgtg 420  
aacacctcat cntg 434

<210> 4029  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-E5  
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ctaagacggt ttatcttga actttgctta tgacaccoga aaggcgaaag gcgatttggg 180  
caatctacgt ttggtgtaga agaactgatg aacttgtgga tgggccaaat gcttcacata 240  
taactcccat ggntttagat agatgggaag caangttaga anatcttttc cgtggtcgctc 300  
ctttcgatat gcttgatgct gctctcgctg atacanttgc tagatacccg gtcgatattc 360  
agccanttcg agacatgatc nanngaata gaanggactt gangaaaacg agataccagg 420  
a 421

<210> 4030  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-061-Q1-E2-E6  
<400> 4030

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cactgtcata ctccatga gggctcttctt agcacgaaga aagatggaat gatttcaa 180  
gtcatgctct gccaatgtg atgtcagcag aaacttcagg gatttatccg cgatgagtgt 240  
tttgaacca aaggttggat ggttccagg caatcatctg cagcttattc acttgtaa 300



gatactctac ccgagtctag aaacatatac gttgctaagt acgaggaatc tgaaacgcaa 360  
gagtgtggcc gatgtttag aatcattaat tggagcatat ctcaacgagg gacgtgaact 420  
tgcagctttg atgttcacg 439

<210> 4031  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-061-Q1-E2-E7  
<400> 4031

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tcttcatatg cgtcttgata tgcccattta acacattcta ccgtccaaca aggttctgct 180  
tcatccgcac cttgcggaag attgtttgct caccgttcta caaggttttg atggttgatt 240  
tcttcatggg cgatcaactt actagccaga ttccattgct gagacacctt gagacaaccg 300  
gggtgttactt cttgggtcaa agcttcaaaa ctacgaata caatacctgc aaaaacggaa 360  
gatactatag agaatttgct tacttgattt ctttcttacc ctacttctgg cgtgccatgc 420  
aatgtgtaag gaga 434

<210> 4032  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-061-Q1-E2-E8  
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gccgccggcg accggagata tgcatactca gatcgagcag cttatggagt gtaaagcggt 180  
atctgaaacg gaggtgaaga tgttgtgtga gcacgcaaag acgattcttg tggaagagta 240  
taatgttcaa ccggttaaat gtccgggttac cgtctcggtt gatatccacg gccaatttta 300  
cgatctaata gagctttttc gtatcggttg ttcttctctt gatactaatt atcttttcat 360

gggtgattat gttgatcgag ggtattatc tgtggagaca gtctcacttt tggtagcact 420  
gaaaagttcg ttacagaga 439

<210> 4033  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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attaatggat tcagtgaact cttcaaagg atatggaaa gtagacgaag ctcaagattt 180  
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caacaccgaa gtccacctcc cgagttaaca acatccactt cactcaaagc catttgcagt 360  
gtaactcggt tccctgaatc ctgcatttca agtancccaa agcttccatc ttccaacaca 420  
acaagatnca gagactcnat tcangetctc aattgaaaag taanccatcn gatgaacttg 480  
attc 484

<210> 4034  
<211> 401  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-F1  
  
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tttccccgt ggaaaactgc aattgagtga taacagagat ggtttctcac tgatagacga 180  
tacgngtgtt tctcgacaa acaagtttaa cgaaagtgt gatgactttg aatctcattc 240  
cattggaac ctgctccctg atgaaganga tcttttgaca ggnatgatgg atcatcttga 300

cctgggggaa gttaccaaatt gctgangatt atgatccgtt ttgggtagtg gaggagngaa 360  
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<210> 4035  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-F10  
 <400> 4035

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 agtttttaggg tggcaaaaca catgtgagac tgtanaagac atagcagcta ctcttgcagc 180  
 cttgaatacc gagatagaca tcagcatcat gtaccgtggt ctgggaccct aagagcacat 240  
 atagcttagt ttctgtggtt tggtattatg gacagcatta tcattgtttt gcacatagtc 300  
 gtgagcacga tcagtggatc atgtacgatg acaaaaccgt caaggtgatc ggtagctgga 360  
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 aa 422

<210> 4036  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-F11  
 <400> 4036

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 gatgcggacg agcttaccaa gtggtcttta tacagagccg tcattgccga gttcgtagcc 180  
 actctctctt tcttgatcat caccgtttta actgtcatcg gttacaagat tcagtccgac 240  
 acaaaagccg gtggagtga ctgcccngc gtcggaatcc ttggcantcg cgttggggct 300  
 tttgggtggg catgatcttc aaccttgtct actgcancgc ccggtatccc aangngngtc 360

acaatnaacc cctggcggtg aacgtttggg gtttggtccn tancccccggg aaaggtaatc 420  
cccng 425

<210> 4037  
<211> 427  
<212> DNA  
<213> Arabidopsis thaliana  
  
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tgtatttaac aaggaagaga gtaaacacat cgtaccgatc ggtacgcttc gcaattcccg 180  
gtttatgtct tgtttccggt ttaagctctg gtggatggcc caagagaatg ggagaaatgg 240  
gccgagatat tccctacgag acgcagttct tattgggcga agagcaacga tgggtccac 300  
cttgagtctg acggagctaa cgggcgtcna gtgnaccag aaagtttaca ccgtttttct 360  
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ngttgag 427

<210> 4038  
<211> 432  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-F4  
  
<400> 4038

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acggaatatc aaagatcatt cgggaggtct tttctgaatt tacggcgaga cacggcgggtg 180  
aactcggttg agtcaacgac gggtaccccc gagttgactc agatggaagc agagcttggt 240  
tcgtttcaag agaaaagttg ctgagaggtt tatcgatctc aatgcgtcta gttgtgaaga 300  
tctactgtct ctcgaaatgg gttggaagc ttcttgattc cgtttctanc ttgtcaagaa 360

gagttccgtt ccanagtcac caatcatcgt tcgatgaata cnaaacaccg atggattgaa 420  
gtgggtttcaa aa 432

<210> 4039  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-G1  
  
<400> 4039

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tctccttgga ttatcgaggt cagcgattca tcgtcgctga taaagcttct acctttctct 180  
tcgatttttg ttgtgagatt cgattcgatc ttaaggcgga ttacatcgag gtatgcagca 240  
nggcgatcaa acggttctga gcttgagacc tgggtggcgg tcgaggaaac agactatttg 300  
gttcctcttc ttcttctcgc tcnctcnctt ttggnctctt ttcantcttc gggatnnann 360  
tctccttcgt cctcatgggt ggtgctcccn gcgtcctctt tnccccgtca aggggtg 417

<210> 4040  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-G10  
  
<400> 4040

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aagagagtac aggaagtgac gattgaattg gnaaaagtta cnaatttgac agggatgacc 180  
aagagtaaag ggatanggat tcccggagag aggacangaa tgccaatgcc ggtgactgcy 240  
acgcatttgg cnaatgtatt cattgagctt gatgataatt tcttgaaagc ttctnaaagt 300  
gctcatgatg tttctaanat gcttgaagct actaggctcc attancattc taattttgca 360  
gataaccgag gacatattga tcaactcctgc taagagtgat ncgtgtaatt acatgggaat 420

aggattactt tagagggaaa taccaaatgc ctggattgat ggggaaaaag atgatgtttg 480  
atttttg 487

<210> 4041  
<211> 427  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-E10  
  
<400> 4041

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gcttgaccct aagagaaagc tctttcgcca tagagtgtac cgtgactcgt gtgttttctt 180  
tgatggtaac tacctcaagg atttgtcagt cctcgggcgt gatttatctc gtgttatcat 240  
tggtgataac tccccacang catttggttt ccaagtggaa aatggagtgc caatagagag 300  
ctgggttaat gacctcan gataaagaac tcccttcaact tgctgncaa tttcctngaa 360  
aagcctaant gngtttaag aangtaaggc caatgattgc caagnaant caatctaagg 420  
ggagaaa 427

<210> 4042  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-B1  
  
<400> 4042

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gagacgagaa attttaaggc ttggctctta gatcagtatg gagttcttca tgatggcaaa 120  
aaaccttacc ccggtgctat ctcaacattg aaaaatcttg caacagcggg tgccaaaatt 180  
gtgatcatta gtaattcttc tagacgtgct tcaactacaa tggaaaagtt gaaaggcctt 240  
ggctttgatc cttctttctt caccggagct ataactagt ggtgaactaa ctcatcaatc 300  
tttgagagg aganatgatc cttgggtttg ctgcactggg aaagaggtgc aantcacatt 360

acttggaat gagccgangn agcaatcccc ntngnggggt ccaaaatnct aanatgtttg 420  
 ttggagaaan gttggaaaa 439

<210> 4043  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4043

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 tcttctccaa ttcgggtcaa aggagattgt tttctgatag ttctcggttt cgtcaagcca 180  
 tggctgcttc tggttctttg ccagtgtttg gagacgcttg tttggatgat ttggttacta 240  
 cttgttcana tggttagac ntcacgaana nncnttcnag gtgggtgggn aggcggcacg 300  
 agttaggttg tccngtaggc gagggatggn gcttgggaaa gagagggagn gaatggatga 360  
 aggagaccgg ttgggtttgt cactattctg ttgttgatcc gctagaaaaa gagtcgtgca 420  
 ctcttttggg acattgtcta aagagtgttc ata 453

<210> 4044  
 <211> 396  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-B9

<400> 4044

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 agcttaataa tgtttgcttc atcttcaagc ttcagatctg attccttggt tctacaagta 180  
 attgtcnctt tctttttcga ttaaccacca tttctgtgaa gaaaactttt tgccttgctt 240  
 caagattcga agtgaggaaa aatttttagct gaaaatgctg gaaattggaa agtcccaatg 300  
 ntctgttttt cccgtacgaa nacnactgg naaaancctc cccgtgagct tcnagaaaat 360

atggggttgaa aattgggggag antgagactg agaaag

396

<210> 4045  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-C10  
  
<400> 4045

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atctttgaat atcacaatat ttactattta caatggcgcc acaagaacaa gcagttttctc 120  
aggtgatgga gaaacagagc aacaacaaca acagtgcgtt ctttttccga tcaaagttac 180  
cggatattta catcccgaac cacctatctc tccacgacta catcttccaa aacatctccg 240  
aattegccac taagccttgc ctaatcaacg gaccaaccgg ccacgtgtac atttactccg 300  
gacgtccacg tcctcctccc gccaaatcgc cgccaatttt cacaaactcg ggcgttnaac 360  
aaaaacgacg tcgtcaatgc tcctcctccc aaactgtccc cgaaatcg 408

<210> 4046  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-061-Q1-E2-C7  
  
<400> 4046

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agctcttgga ctatgaagaa gaagacgaga aggtcccaga ttctggaaac aaagttaacg 180  
gcgaagctgt gaaaaaaggg tacgtgggaa tacacagtgc tggattcaga gacttccttt 240  
tgaaaccgga gcttctcaga gctattgttg actcaggatt tgaacatcca tctgaagtgc 300  
aacacgaatg tatccctcaa gctatcttgg gtatggatgt tatctggcaa agcaaagtct 360  
ggntntgggg aaagactgct gtgtttgtcn cggctctact ntacnacaag attggnacca 420  
tctcctgggc cagggnnttc tgc 443



<210> 4047  
 <211> 406  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-D1  
  
 <400> 4047

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tgtgtgcagc tgtgcctcat taaaccttag gcgcactgtc tgtggtcact gtcaagcggt   180
cgcgtgggtg cctgggtcga ccaaattttc gattttctct cggcgttggt ctgtttgatc   240
tgagagcgag cgtcgcgagc catgcaggcg gcgccgcctt ctgacagata ccacctgggt   300
tatatttgct tcctcttact tgggtctcggc ttctcctcc catggaacgc ggcatnaagg   360
gncgtccgat taccttcaan gccacgttcc caaggcgagc cgntcg                      406
  
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<210> 4048  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-D10  
  
 <400> 4048

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aagcatgtac gttacattct gatggcagaa aagaagaaag agagttttga gtctgtggtg   180
atggatcatc taagaatgaa tgggtgcatc tggggactca cactctcga cttacttgac   240
aagctcggct gtgtttctga agaggaaagt catttcatgg ctcatgactt gccagcatga   300
atctgggtggc tttgccggta aactggggac acgatncaca taccctatat aactcaagt   360
gctgtacaaa tcttgggcct anttgacaaa atcaacattc ttgacatttg ggaaagtgtc   420
aa                                                                422
  
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<210> 4049  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-D12

<400> 4049

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agccaagggtt acggttacgg cggtaatcca ccacctctc agncaccgta cggatcaacc 180
ggcaataacc ctctccgta cggatcatcc ggcagcaatc ctctctctcc gtacggatca 240
tcaggctcct caccgtacgc agttccctac ggagctcaag cgcgctcctt acgggtgnac 300
caacgtcaag caaccgtaag gcgctctctt caanggaaga ncanaannaa agnccgnaac 360
anagnggaaa acctcaacgg gnggctccta agggggtnct caatctnccc ggggtgggct 419
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<210> 4050  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-061-Q1-E2-D2

<400> 4050

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gttcttgact tcttctgcgt ccctatgata gatgtaggaa acgagtttaa tctcccttct 180
tacattttct tgacgtgtag cgcagggttc ttgggtatga tgaagtatct tccagagaga 240
caccgcgaaa tcaaatacga attcaaccgg agcttcaacg aggagttgaa tctcattcct 300
gggttatgtc aactctgttc ctactaagggt tttgcggtca ggtctattca tgaaagagac 360
ctacgagcct tgggtcgaac tagcagagag gtttcctgaa gctaaggggt attttggtta 420
attcatacac agtcctcga 440
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<210> 4051  
 <211> 423  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-061-Q1-E2-D5

<400> 4051

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tgtgaatgat tgtcggcaaa ttgggattag ttgtccatt gttcctggaa ttatgcctat 120

taataactac agaggctttt tgcgtatgac tggtttctgc aagactaaga taccagttga 180

ggtgatggct gccttggagc ctatcaagga taacgaagaa gctgtgaaag cctatgggat 240

tcaccttggg acagagatgt gtaaaaagat gttggtcat ggagtcaagt ctcttcatct 300

ctacacattg aacatggaga aatctgctct tgcaatattg atgaatcctt ggtatgattg 360

atgagtcacn aatttctcgn tccttanccc tggangacnc cctgcanatg ttttccgtta 420

cta 423

<210> 4052

<211> 402

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-061-Q1-E2-D6

<400> 4052

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tgagacgggt aaacacctga tcgggtccgg tgggtccang cggattcggg tcaagatcca 120

ccgcgatca tgtcacttgt aattctgac tcctgttctt aactgccatc atcactggcg 180

cgacgtcggg gataggagct gagacggcgc gtgttcttgc taagcgtggc gcaagacttg 240

tgtttccggc tagaagcgtc aaaaccgccg aggaacaaaa ggctcgtata ctgtcggagt 300

ttcctgatgc ggagatcatc gttatgcac ttgatctcag ctacttacc tctgttcgtc 360

gattccgtgg gacgatttcg aaatctctc aatctcncac tc 402

<210> 4053

<211> 421

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-D8

<400> 4053

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 acggaatata aaagatcatt cgggaggtct tttctgaatt tacggcgaga cacggcggtg 180  
 aactcggttg agtcaacgac gggtaccccc gagttgactc agatggaagc agagcttgtt 240  
 tcgtttcaga gaaaagttgc tgagagggtt atcgatctca atgcgtctan ttgtgaagat 300  
 ctactgtctc tcgaatgggt tgggaagctt cttgattccg tttcnatctt gtcaagnaga 360  
 gtttcgttcc atantcatna ngcatcgttc cnatgatnac naaaccaacc ganggatoga 420  
 t 421

<210> 4054  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-D9

<400> 4054

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 tttgatccct taaccgagac cgaactcaaa ctctccgaa ccatcatcaa caagtcgtac 180  
 cccgttggtc cgaatcataa gttcactttc caatacgttg gtctcaacga acccaacaag 240  
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 aagcgttcgg tcattgctcg agacaacggg aaaagaccag agagatagtc cttgaacttt 360  
 tctcncgtg ncacgtctc ggacaaaatt cacgtaggga aatgggtacc ctatgggtctc 420  
 aaacgacgaa gcaagaangc atccancgag cttgttgtca aagttcaagc ccgtttaatg 480  
 actc 484

<210> 4055  
 <211> 444  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-061-Q1-E2-E1

<400> 4055

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tgagttgcaa tggatgtaga gttcttcgaa aaggttgcag tgaaacatgc atccttcgtc 180  
cttgccctca atggatcgaa tccgccgagt cacaaggcca cgccaccgtc ttcgtcgcta 240  
aattctttgg tcgtgctggt ctcatgtcnt tcatcncctc ccgtacctga actccaacgt 300  
ccctgctttg tttcagtcog ttgttgtttg aagcgtgtgg gagaacggtg aatcccgggt 360  
aacngagcng ttggtatggt ntgggnncan gaactgggca cgtatgcca gcgggngttg 420  
anaactgggt cgtcgccggg ggaa 444

<210> 4056

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-061-Q1-E2-A6

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ttcatcagtg actgataaat ctcccaaagg ttttctcgac gaacccatca tccctctcct 180  
cgaaaccatc aatcatcacc catcttactt cactaccagt tctgctcag gtogaatctc 240  
aatcctttct caacccaaac caaaatcgaa tgattcaact aagaagaaag ctcggtggcgg 300  
ttcatggctc tanatcacac acgaccagc tgattcgat ttggtaatc cncncnttt 360  
cccttccaan gtcantcag attgacccan ttggaccaac ctaagga 407

<210> 4057

<211> 453

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-059-Q1-E1-F12

<400> 4057

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 gccgtgtttt cgattttctt agagctgcct gtagatcnat cccaccatc atggacattt 180  
 acaatcttca aggatgtcgt cgctccttct cagctccgct atgctatctc tgctcagatt 240  
 cggaataacg ctcatcatc cggatccnaa ggtaattgat cntcgtatat tnaaacgaat 300  
 gganagagct tgctgacatt gtggnctcac caaancagcg tcaccacatc atcgggtcaa 360  
 tatgtngtng gtgaancggc tccgtgcagg atactgggaa aacanngatc angggaaaag 420  
 actgganttt cncaagaaat ttctaaaacg agn 453

<210> 4058  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-059-Q1-E1-F2

<400> 4058

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 atgcacatta tagagaactg ctatgaaaac tatgaaacgc ccagtgaaaa accagctgaa 180  
 aatccatctg ggaaggataa acatgagaac aaatctcata taatcaaagc tagtgagagt 240  
 cattcaccag acggtgaaca gaatgctgtc acagaaacaa aacttattga tcagatattt 300  
 gogaattcat tanttctcat gtgttctgag gatgcactgc gcttgatac tgtaaagtct 360  
 cnatctcagg gaagtontga gagcattang gaggtaaatc ttccaaggcc gtgttgctgg 420  
 atgggaatcc ctaaaagaag atggaagggg aatntgcant actcctgttt taccgaacag 480  
 ggca 484

<210> 4059  
 <211> 455  
 <212> DNA

<213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-059-Q1-E1-F5  
 <400> 4059

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 tcaactgaat tcgggtcatt gaactgattc ccggggctcc gaatcaccag aagatccgaa 180  
 atccgttgca tcgcaagcgc ttgcttatcc tgagctgaaa taacaagatg attcacattc 240  
 gtcgtcctcg cagccgtagc cgccgcagaa gaagacgatg aagacgacga cggagatgga 300  
 agcacaccgt tatggatctg aactggaact ttccctatgg tatcagcttc actagccatc 360  
 atttcgaaca gcgtcggact tgatcgtgtc ttgtcgtgca tcgccggagg cggaggagga 420  
 gacattggat ttagaagacc tgccgttaaa gcgga 455

<210> 4060  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-059-Q1-E1-F6  
 <400> 4060

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 ttcatTTTga tccttcttcc ttctctgga gatttctcaa atctcttcaa ctattttgat 180  
 ttgccgccat gtatcgacgc gccacttccg gcgtgcgttc tgcttccgca aggttttctt 240  
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 catgaaagcc catggcttga catanctatg aaaccaagtt tccgaccacct ttggaccaa 480  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-059-Q1-E1-D2

<400> 4083

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 tgattactta tcttgattta gccctaaacc gtaaggctaa agaattctta taggcactaa 300  
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 agggttattc ttctgtcctg aagcagcttc attgctgctc ataacttctg canttaccat 420  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4084

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cgatgagttc ctgaatcagt gcaaacaatc cggcgacgca gcttatggcg ccttgcgatc 180  
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catctacaaa cgcgtcggat cttctgagac gtctctccaa acctaccatt ttcatatcca 300  
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cattcctagt atttttattc caagaagact ggtcatttac attttatgaa gggacttaac 420  
aagacatccc tgacaccaac ctttaaggnt aagactgttt cctgaacttg gctgtgggaa 480  
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<210> 4085

<211> 510

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-059-Q1-E1-B9

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cagcaactcc ggtattgtca tgggtgtctt cgaagaaagc gaatgaagat gctgggtctg 240  
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ctgttgcatc tgctgatgag gctgaacatg gtctggagtg tcctaactac ccttggnac 360  
atgagggcat tctcaagctc atatgaccaa tgcttcgatt cgtcgtggtc accaagttta 420  
tcagcaagtt tgtgcgtctt tgccattcga tgtctctgat ctcataccga agacttggtg 480  
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<210> 4086

<211> 507

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-059-Q1-E1-C12

<400> 4086

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ttgagactta ccctgctgtg aancgtatca catcaagcca nagactgnca ggtgggggtg 420
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<210> 4087

<211> 483

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-059-Q1-E1-C2

<400> 4087

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agcgacgcga ctggaacacg ttcttgcaat acctcaagaa ccacaagccg cctctcgct 240
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<223> unsure at all n locations  
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 aagaactggt taggtcaagt atgacttaat tctgccaaat ttctggtgtt tattcaaagt 180  
 tcaaagtcaa ttgaacaaaa ctttttatca gataaactga agcaatgtat accgagggag 240  
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 caagttatgg atatgcacag tctccctaca atccctacaa tccttacata ccaggagctt 420  
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<210> 4089  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 agtcctttta ggttttaata acccagtttc atgggggtta cttccttgta tctagccctg 180  
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 ctctccccct gatgttatca agattagatt tcagggttcag ttggagccta cagctacatg 360  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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nnnnnnnnnn nnnnnnnnnn aagctccggg ggtgttaaatt accgcctcc gtacggcggc 180  
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ccgaatccga tcgttcctta ttttccgttt tactatcata ctctcctca gggatattca 300  
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gtgtgacggc gattcatctg tatttgccg ggaaggtgt acggtgtaaa actgaaatat 420  
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<212> DNA  
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ctggccgaga tcaaggactg cattaatcaa ggcggtctca atgcgattcc catctttctac 420  
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ctaaaggaga aatataaaaa tgatcctgan agaactcaaa 520

<210> 4092  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 4092

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gtttcggtag ccgtactcog attcctcctc tgtttcgttg ccacgatccc tgtttcattc 180  
gcttgtcgaa tcgtcccag tagactcggg aaacacttgt atgcgcgtgc ttcagggtgt 240  
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ggtttcgctt atcttattgg ctgtcatgtg ttttaaata atggtgatgc gtggaagaa 420  
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<210> 4093  
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<212> DNA  
<213> Arabidopsis thaliana  
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tagattttga gtttcttggg aacattagag aaaaagaatg gagagttcag acaaacattt 180  
acggtaatgg aagtactcat tcaggaagag aagagagata taatctctgg tttgatccta 240



ctgaagattt tcatcaatac agtatcctct ggtctgattc tcacatcata ttctttgtag 300  
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agccgatgtc tctctacaca acaatatggg acggttctaa atgggcaact aacggtggaa 420  
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<213> Arabidopsis thaliana  
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gaaagaaggt attaccatcc atattgcccc tgggtgggaag ttcgaaaccc tctaaatact 300  
aacttcaacc aatcnattga tggcccctgg gccacangag aatttcatca aagaaacaat 360  
gaattactgg ggaacctcct ccaancctga acggtngcaa ncctccgtaa tngcttcccc 420  
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<210> 4095  
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<212> DNA  
<213> Arabidopsis thaliana  
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nnnnnnnnnn nnnnnnnnnn nngacctaaa tggctctgttc aatcaatccc cacaaagaaa 240  
gatgtggagt atccgattat ccgactcang agattacctt gacgaccggt atgantcatc 300  
ccgngagct ctctacaacg acgaangccn ccgattcaag gaaaatggga aancnngaag 360  
tttacttgaa aananggttt tacntggggt tgantgcaa nngttactgg gacggaatna 420  
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ttcccccgga gaatgcgac ggagatcgga aactgaggaa ttgctgtct ctactcgcg 180  
tgtttagttt acgattggaa tatggggaag atatttagct ggtagtggt gttattgtca 240  
ttgatctcat tagtccctgt tccatcgga tccgctgttt tgagtgtaga tctaggttca 300  
gaatgggtta aagttgccgt agttaatctg aaacgaggac agagtccaat ctctgtagcc 360  
attaatgaag atgtccaaga ggaaatcccc agcttttagta gcatttcaat ctggagaccg 420  
gttactangc gangaagctg cggggaataa cggctcgta tccgaataaa gtttattcac 480  
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<212> DNA  
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acggcggatt ttctcaccgg gaaattgggt ttagatggat aggactgagg aaatcgaaga 180  
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caacctgaag cagctctcta gatgctacag agaccattan tgggctctaa tgggangatc 360  
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tgtttactat accagttttc gaaatcctga cgggccagtc taccctggca ataggcaata 360  
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<213> Arabidopsis thaliana

<223> unsure at all n locations  
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 ttcttctgct tttcttctgt ctctttctat cgaccacat aatttccgtt tcttgtttaa 240

actcagatgg gctaactcta ctctctcttc tgaagcattt ggatagagta ccaccacaag 300  
 ttacttcgac atggaaaata aacgcaccc tgaagcaaact ccatgtaact gggtcgggat 360  
 cacttgatgac gattctaang aatgttgctg ctctcaactt cactccgttc taagggtttc 420  
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<210> 4106  
 <211> 469  
 <212> DNA  
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 atcaaaagtc taaatggaga ttaacggggc acacaagagc aacggacgag gagggtgacgc 180  
 tatgttatgc ggcggagaca tcaanacaaa gaacatgggtg atcaacgcgg aggatcctct 240  
 caactgggga gctgcagcgg agcaaangan aggtacccat ttggatgaac tgaaganaat 300  
 ggttgcnag tttaggaanc cagttntgaa tcntgggtgt gagactctga ccantggaca 360  
 antggctgag atctcancta ttggtaacag tgtgaagggtg ggagctatcg gagacagcta 420  
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<210> 4107  
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 <213> Arabidopsis thaliana  
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 <400> 4107

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 ccattttctc ctacaaaaat ctgggtttcg atcaatttta ggtcttttga ttctacttg 180  
 tctaategtc ttgcaatttc aaagatgaca gttgttgagg atgttgctcc aattccaagg 240

aggaacagtt ctacttgctc taatgatata gctgctccgt tattaccang agtgtcatgg 300  
 agatgaagtt gctcatgatg aattcaatgg agcttctttt agtggcgcggt tttttaacct 360  
 cgccacgact ataattgggtg ctgggtatca tggctttgcc tgctacaatg aangattccn 420  
 tgggacttgg acttgggaa 439

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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-G5  
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 tgggtttttc ttctgctcta atgactctgg tttcttctct cctctctcac ccacttgaaa 180  
 ggtaaaaaag tgaaaaaggc tttgtagatg gaatcaatgt aggatttgca gtagagggaa 240  
 aaaaaatgtc aaaaagctca attgatcaag tattattgta atcattgtac ctttatttta 300  
 ggtggacttt gatgaaagca actttttgtt ttcaagactt tagtgggaag gttgaggaag 360  
 gagcttgaan ggtgttattt aattaagtag tagtagtaat gggaanttgt gggaac 416

<210> 4109  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-056-Q1-E1-G6  
 <400> 4109

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 taatcagcaa tgctgtaatc agttgagtag agtagtcag tcttctcttg actgtttgtg 180  
 tcaagtcctt aacggtggag gctctcagct tgggatcaat gttaaccaaa cacaagctct 240  
 tggctctgcct agggccttgta atgttcagac tcctcctgtc agtcgctgta ataccggtgg 300



tggtggtggt ggttctactt ctgactctcc tgcagaatca ccaaactctt caggaccagg 360  
 taatggatcg aaaaccgtac cagtaggaga aggagacgga ccccatcgt ctgatgga 418

<210> 4110  
 <211> 424  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-E7

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 taagccgagc aagtttccct aatgggtttt tgtttggcac ggctactgct gcggtttcagg 180  
 tcgaagggtgc aattaatgaa acttgctcgtg gaccggctct atgggatatc tactgtagaa 240  
 gaaatccaga gagatgtagt ggcgaccacg ccgatgtggc cgttgatttc ttccatcgtt 300  
 ataaggaaga tattcagcta atgaanaatc taaacacaga tgcattcang actctcaatc 360  
 gcatgggtca aagaatattt cctcaatggg agaannaga aggganttaa gtcaagctgt 420  
 gttg 424

<210> 4111  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-B6

<400> 4111

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 ctccggaact ctctcctccg acgtagctca ttacctctg ctacagaatc tatcactcgc 180  
 tgctaatacag atctcaggtc ctattccgcc gcaaactctc aatctctatg agcttcgtca 240  
 cctcaatctc tccaataatg tcttcaacgg ttcatttccc gatgaactct cctctggatt 300  
 ggtgaatctc cgtgttcttg acttatacaa caacaattta accgggagat ttaccggttt 360  
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<210> 4112  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4112

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tgaagaaaac agtggtaaaa cgggccctgt ggcacctcta gaaaggaaac atgcctctct 240
tcccagatca acggtcatat actcaaccgc agtagcacga ggaggacaac caaaacttat 300
gaataacaca aacacattga accctgaaac tactcaaaac attcctttta atcatgcaac 360
aatacaagca caacaaagaa acctctcaag caagccaaac caagcacatt catgggccccg 420
gttgcacctt tcgacaatgg c 441
  
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<210> 4113  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4113

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tttaciaaagt atgagcaagt ttttcttggt ttctacagca aagcaatgct cacaccattt 180
tcgtggagct taaagtcttc aaacccaaac taaaagcttt gaaatttctc tgcaagaaac 240
agagagagag atctagggat tggctattaa gagagagaga gtagaagtac tacactattg 300
gttcctgtgc tgttgtgttt tgtgcatctg ttcttgtgtt tctcagataa aatattagnt 360
tcagtcnttc aaagacattg antctcacac acttactaac acacactcac acacgcgtta 420
atttct 426
  
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<210> 4114  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-C6

<400> 4114

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taattctgat ctccgttctc taactgccat catcactggc gcgacgtcgg ggataggagc 180
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caaaaccgcc gaggaacat aggtcgtat actgtcggag tttcctgatg cggagatcat 300
cgttatgcat cttgatctca nctcacttac ctctgttcgt cgattcgtgg acgatttcga 360
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<210> 4115  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-C7

<400> 4115

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gcancaatga tgtccctata tttggtgatg gcagtctcag cggtggtgat gagttatggt 120
catcttctaa agatgtatcc aatagcccaa aatcattatc atcaatgttg gactctcaag 180
atctaggatt ggatattana actgagtttg agcaacaaga gaaccagcaa tttccattga 240
ctggaaaagc caatggtctg tcatcccaa gtgtcccaag tgtacgtgta actcttaagg 300
ctgaccaata tcgtgagcat aagggtcaac cctcagttga ggaccaagcc atatcaacaa 360
aataaaatga tgaagttttc gaaaatgcct gggacttctg aggcaangcc ctttcaagag 420
ctgtacggtc acaggattcc atttagtaat tcagctggaa aatgtgtaaa tcagttggca 480
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c 481

<210> 4116  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-C8

<400> 4116

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ctgtgactcc gataaagcct nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncttt 180
ggagttgtcg tatctctaaa tcggaggcaa ttgagtgag ataaagacaa aggaaggaat 240
caagtggaact accgaagcga gttttgagct ttttcagaga cggatttga gatttcttgt 300
tgatatcgct tgcttagagg cttatttggg accagatgaa acagatctga gcttcggaag 360
gtatggcgag ttcggagggt tcaatgaaag gtaatcgtgg aggagataac ttctcctcct 420
ctggttttaa gtg 433
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<210> 4117  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-C9

<400> 4117

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aatcctcagg agtttaaaga gttgatggag gagtatatta agctatgtac agatctttct 180
agaaagattt tgagaggaat ctccttagct cttgctggat caccttatga gttcgaggga 240
aagatggctg gtgacctttt ttgggtgatg cgtcttattg gttatccagg tgctgagttc 300
acaaatggcc aacctgaaaa tgatattgga tgtggagctc aactgacta tggcttggtta 360
actcttgatg atcaagatga tgacaaaact gctcttcaag tgagaaactt ggggccgggtg 420
agtgggatat cagccattcc aatccctngg atcgtttggt tgcaacatcc gtgacatggt 480
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taaga

485

<210> 4118  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 4118

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tacatggatc agtactcatc ctctttggtc gatacttcat tagatctcac tattggcggt 180  
actcgtatgc gagttgaaga agatccaccg acaagtgtt tgggtggaaga attaaaccga 240  
gttagtgctg agaacaagaa gctctcggag atgctaactt tgatgtgtga caactacaac 300  
gtcttgagga aagcaactta tggaatatgt taacaagagc aacataaccg agaggggatt 360  
aaaatcagcc tccaagaaa cgnaaatccc cgggcgagag aggangcatt c 411

<210> 4119  
<211> 485  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-056-Q1-E1-D3  
  
<400> 4119

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aaacagctcg taaatccacc ggaggaaagg caccaaggaa gcaactcgcg accaaagctg 180  
cgaggaaatc agctccagcc accggaggag tgaagaagcc acacagattc cgtccaggaa 240  
cgggtggcggt gagagaaatc aggaagtatc agaagagtac tgagcttttg atccgtaagc 300  
ttccgttcca gagattgggt cgtgagattg ctcaagattt caagacggat ctgagggttcc 360  
agagcagtgc cgtcgcagct cttcaggaag cagctgangc ttatcttggt gggctctttg 420  
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atccn

485

<210> 4120  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana  
  
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<400> 4120

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa cgtaatctcg 180  
aagtcggttg tttcaatect gccatggcgg aagggaagtt cgatctgcct gacgatctca 240  
tcttttccaa atcttctgat cagctcaaag aattgggctc agataacagc attcccttgt 300  
ctccgnagtg gctttacacg aaatcaagcg agtacaagga tggatgttcg atncacctac 360  
tcctgttccc atgggaaatc caagtgancn aaatccgaag gatgcatggg n 411

<210> 4121  
<211> 489  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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cttcgtctct ttogaaagat ctaaccacaa caactcctta agatggataa gtatcaacga 180  
agtgggtgaag ccgaaagcgg atacgccgat tgatgcgaat gagattcgta tcaactagtca 240  
aggcagggca cgaaactaca tcacctatgc gatgactctt cttcaggata aagggtcaac 300  
tgaagttgta ttcaaggcaa tgggaagagc tatcaacaag actgtgacca ttgtagaagc 360  
tgattaaaga gaaggattcc tgatcttcat cagaacacat ctattgggat tcacagacat 420  
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gttgtcaat

489

<210> 4122  
<211> 432  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 4122

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ggttaccctc ctgctggcta tcctgcacct ggagctcacc attcaggaca ttctggtggt 180  
ggactcggan gcatgatagc aggtgcagct ggtgcagccg cagcagctta tggagctcac 240  
catgttggtc acgcctctca caacccttac gggcatgctg tangacatgg anggtatggc 300  
catgcccctg ctcatggctt tggccatggt ggtcatggta aattcaagca cggnaaagca 360  
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ggngggaggg ag 432

<210> 4123  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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aactctaacc atctcggagt aatctacgag attgatatcg ctgcggatcc tcttgtcaat 180  
aagttggaag atgctgtcca ccggattatg gtacgccgat ccgcacctga ttggctcnct 240  
tttgtccccg gtgcttcntt ttgggttcca cctcctagat cccagtctca tgggategct 300  
aagctcgttg agaagctggn caatccgata tctgatgaan aatctanttc antctcatcg 360  
gttcgaggat gggcttgctc tgattactca tcaannngg taaaagcctc aatcaagttg 420

agacgg

426

<210> 4124  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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acggttgcca ggagtttgtc aaccgtttct ccattcggan tggtttcaga nacaaagtta 180  
cagtctacat tttcaattta tctccacac tctgagatca accagcattc tagtagtgaa 240  
gtctttatgc anatggattc cgcacagtat cagttcanca aacgtgctcg attgtttgaa 300  
gatectgaac tcaaagatgc taangtcatt tatccatcga acccnaatc tactgaacca 360  
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<210> 4125  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-056-Q1-E1-B4  
  
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aagacgaaga gtcaaaaccg acttgttgct ttggaaattg ctacgatggt gaactcaaag 180  
gcttaccgtt ccacaagaa cgcaaagctg actgtgactt acagaaccgg aactggtaat 240  
gacangcgca gttaccatga ccaggttctg ttcantccgg ttcttgatca gccttattan 300  
tcgangccgt tattatgtcn gtanacgacg tgggaagcaa tcaaggagga gcttcnggcg 360  
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taagccac 428



<210> 4126  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-055-Q1-E1-H1

<400> 4126

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ccattgcatt aaccgggcaa gcataaccag agccaagata ttattctacc ttgtggagtc   180
cagtccttgg catctgtagg tctttggaca ctttttcttt agtatgctaa gtaagaaaca   240
ggatgactct gctcttacag atgatcaagt ttatcatgct tctgcctgct gtgctatcgt   300
atctgacatc agttattgca aaactcgaga agccttgtaa taaatgtttg gatataactt   360
cagtttattc aaatatacca ataaatgggt ttccttcagt ggccgangtt tttggcnagg   420
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<210> 4127  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-055-Q1-E1-H4

<400> 4127

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agtatggagg aagatcgtgg ggaagcgatc gttttagata tttcgccgga gattaataat   180
actccggcgg taatgatgag agttccacgg aggattcgtg agaggctttt gtctgactgt   240
agtaataaga agacagtatc ttctgttcaa gatattgaag acaagcttct tcatgcccat   300
ctacgaagac agcaatttta tcataacgtt tcgagaaagg ctctgtgctaa acctanaagt   360
ccttcacgat catctgatga agaacttggc caacgaatcg aagcaagact tctggctgct   420
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atg

483

<210> 4128  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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caaaagatca tgggtcccttt gttcttgagg attgcttggt gtgtcaccag ttcccacttt 180  
caggtttctg aaagagcttt attcttggtg aacaacgac aaattgtaaa cttgattgga 240  
cataaccggc aagccatcct accaatcatg ttcactgctt tagaaaagaa tgctcagaac 300  
cactggaacc aatccgtgct aaacttaacc ttaaactgac gaaaaatgtc tctgcgaaat 360  
ggacnaggct cctgttcatg tcntgccacn cccgctttaa ngaggacgaa ananagcaat 420  
gttctgctgc gggaaaagan 440

<210> 4129  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-055-Q1-E1-H8  
  
<400> 4129

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tgacgctttt tccagtcatg ttagccacac tctgcattgt cctgcagctt ctcatgggt 120  
cgtcagcttt ggctacgaca aatcgccacg tgtcaaaactc tcattgggtt cccgcagtag 180  
ctacatggta cggaagcccc aacggtgacg gcagcgacgg aggagcgtgt gggttacggta 240  
cgttggtgga tgtgaagccg ttacatgcga gggttggagc ggtgaatcca attctcttca 300  
aaaatggtga aggttgcgga gcttggtaca aggttcgatg cttggacaag agcatttggt 360  
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a

421

<210> 4130  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-056-Q1-E1-A1  
  
<400> 4130

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gtttacgaca atgttacaaa ggtatatgta nggcaaggcc agtatggtat agccttcgtc 180  
aagtttgagt atgccaatgg ttctgaagtg gttgttggan atgaacatgg agagaagact 240  
gagctaggag ttgaagagtt tgagattgat tcggatgact acatcgtcta cgtggaaggt 300  
taccctgtag aaagttagcg atatgacctc aggaaatgat cacgtttctt tcattcaaag 360  
acntctaaag gcaaacctc tcagcctaac cgtaaataaa acctgggggt ttaagtttgt 420  
gcnacatggg tggaaaaaan ccgttggggg tt 452

<210> 4131  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-056-Q1-E1-A2  
  
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cggagggcag aagcaacgta tacagctcgc acgtgctgtc tatcaggaat gogatgtata 120  
cttgctcgac gatgttttta gcgcagtgga tgctcatacc ggttcagata tattcaagaa 180  
atgtgtaaga ggagctctga aaggcaagac cgtattactc gttacccatc aagtggattt 240  
cttgcacaaac gtggattgca tcttggtgat gcgggatgga aagattgttg aatcaggaaa 300  
atatgacgaa ttagtcagct ccggattggg attttgggga acttgtggct gcacatgaag 360  
acgtcaatgg agctggttga acccggtgca gactctgcaa gcaagtcgcc acatccccc 420

a

421

<210> 4132  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-A3

<400> 4132

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agtaaaaaaa aacctagatc gctcttcaca tctcttcgaa cgattctctc tttcaagatg 120
caaattttcg tgaaaacact cactggtaag accatcactc tcgaggttga gagctctgac 180
accatcgaca atgttaaggc aaagatccag gacaaggaag gcattcctcc tgaccagcaa 240
agattgatct tcgctggtaa gcagctagaa gatggccgca ccttggttga ttacaacatc 300
cagaaagaat caacactcca cttggttctc aggttaagag gtggtatgca gatctttgtc 360
aagactctga ctggcaaaac cattaccttg gaggttgaaa gctctgacac tattgacaac 420
gtcaaggcaa aagattcagg acaaggaagg aatccctccg gaccag 466
  
```

<210> 4133  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-A5

<400> 4133

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gcgttagaga agcctgatgg tggatgaattc ggtaactact acagcttacc tgctttgaac 180
gatcccagga tcgataaaact accttattcc attaggatac ttcttgaatc ggccatacgt 240
aactgtgatg agttccaagt taagagcaaa gatgttgaga agattcttga ttggggagaat 300
acttctccca agcaggttga gattccgttc aagcctgctc ggggttcttc ttcaggactt 360
tactgggtgt tcctgctgtt gttgatcttg cttgcatgag agatgccatg aataatctcg 420
gtggtgattc cnaata 436
  
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<210> 4134  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-A6

<400> 4134

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ccatcagaca agaccatcgg tgggtggtgat gatgccttca acaccttctt ctccgagact 180
gggtgcaggta aacacgtccc aagatgtgtc ttctcgcctc tcgagccaac cggtattgac 240
gaagtcagaa ccggtacctc cagacaactc ttccatccag agcaactcat ctccaggtaaa 300
gaagatgctg ccaacaactt cgccagagga cattacacca ttggtaaaga aatcgttgat 360
ctctgcctcg atagaatcag aaagctcgtc gatcaatgca ctgggtctcc aaggtttcct 420
cgtcttcaac tca 433
```

<210> 4135  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-A7

<400> 4135

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caaaaacctt acttttactc gagattttgt ctccgcgcgc gagtaccaag tgcctcccga 120
tctacgcccc aatccctaaa tggctacgga ggctacaacc gtaccctaat tccaggaacc 180
tgatctccgg caggtttctc agacaccgga tttcaaaccg gaaatcgctc acgatggtct 240
taagttctgg caatttatga ttgctggttc gattgctggc tccgtcgaac acatggcgat 300
gtttcccgtc gataccatca agaccatata gcaagcgctt cgaccatgct ccttaaaacc 360
cgtcggaatc cgggaagctt tccgttcgat tatccaaaag gaaggacctt caactctgta 420
tcg 423
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<210> 4136  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4136  
  
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 ctgtaatcca agtgagagag agagagaaat ganaatgcag acgaagaagc tctttatcac 120  
 cattgtctcc tttcttctct atgctccatt gttcttatct tcaccagttc ctganccctga 180  
 atctgtcgtt gaagaagttc acaagagnat taatgcgtcg gttgcaggaa gaaggaagtt 240  
 angttacctc tcatgtacga ccggttaaccn aatcgacgac tggtggcgtt gtgacctca 300  
 ctgggagcan naccgtcaac gtctcgtctga ntgcgccatt ggattcggcn aaaacgccat 360  
 cgggtggccgt gacggtcggg atntacgtgg tcaccgactc aaggaagncg 410

<210> 4137  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-A9  
  
 <400> 4137  
  
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 tccatcgennn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnagagaaaag agatcttcac aaatatgact gtgatgaatc accgacacaa gcaatgtcat 180  
 tttctctcc tcttctgat cactgtcttc tctgccgctg tggatggtgt ttcttccgag 240  
 acagacgtcg gagggtttga ctacggtgaa gcattgtcta aaagcttact ctactttgaa 300  
 gtcagagat caggaagact tccgtacaac cagcgcgtga cttggcgtga tcaactctggt 360  
 ctcaccgatg gtcttgaaca aggggttgat ttaatgggag gatatcacga cgccggagac 420  
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<210> 4138  
 <211> 489

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4138  
  
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 tgcgatccga gtaaatacgta ctcggtcgct gatttgaact acccgtcgtt cgcggttaac 180  
 gttgatggag tcngtgcgta taagtacacg cgcacggtga cgaacgtggg aagagctggg 240  
 acttactcng ttaaagtaac ttccggagac gacagggagt caagatttcg gttgaaccgg 300  
 cggttttgaa tttcaaggaa gctaacgaga aaaaatcgta tacggtgacn tttactgtag 360  
 actcgtcgaa nccgtccgga tntaacanct ttggggagta ttgaatgggc ngatgggaaa 420  
 cacntngtgg gaantcccggt ggcgaataac tgggacataa tccgtaaatt atgagaaatg 480  
 naaagggggg 489

<210> 4139  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-056-Q1-E1-B12  
  
 <400> 4139  
  
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 cgcgtccgcc cgaagttgct cttcttggtc actctctgat ctagttctaa ctctccaac 120  
 tacaattcca tggcgggtgc tcttcttctc tggactctct tcctcttctc atttatcttc 180  
 tccctccaat cacacagcaa agaagaagaa gaagacacac caatcacacg attccagcaa 240  
 tacttaagat tcaacaccgc tcatccaaac cctaactaca ccgcaccaat ctcttttctt 300  
 cttgatcaag caagatcaat tgggtcttact tctcgaacca tcgagtttgt tcctggtaag 360  
 ccagttcttc tctcacatg gctaggctca aaccttaacc tttcttcaat tctcttcaac 420  
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 ctcaac 486

<210> 4140  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4140

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gttcttctgt ggcaaagctt gccataagaa ggacactgtc tcagtctcgt tgtgggttcac 180
atgccactag aacaagggtt ttgccttgtc aaaccagatg ttttcaactc acaataactca 240
aatcaaaggc agagtctgct gcacctgttc cacgtcctgg tcccactttc taagctaact 300
gatagcttct tagatggnac angcantgtg tatctagagg agttacaaag agcttgggag 360
gctgatccca ncagtgttga tgagtcgtgg gatanctttt tagggaaatt ttgtgggtca 420
ggctt 425
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<210> 4141  
 <211> 399  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-G6

<400> 4141

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncatggatg acatgttctt aagttccatt 300
ttggaggatg ttccagggaa tgagaatttt ctttctttca aggagtcgga taataacaac 360
agctccaatt cctcctaacc cgaaacaact tgaagggaa 399
```



<210> 4142  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-G7

<400> 4142

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ctctctataa caaacattaa tacacacacc aaaaaaaaaac ctgtttatgt ctcaaagatc 60
tctgattcct cattcttctt ctatagcttt tgggtctccat tctcatctct taatctccag 120
tgagatcagc tccaattcta actggtctct ctaaataaaa aacagaaata aaaatccaac 180
ctttttcaat tttcgttcaa ttttcccgga aaaaaaagcg atccttttga tttttcgatt 240
tctccaagta acaattcaaa atgggtctaa agggttttgc tgaaggagga atagcttcga 300
ttgttgcggg ttgttcgacc caccgcttg atctaataaa ggtccgaatg caacttcaag 360
gngaatcanc tccgaatcaa aacaaatctc cggacnagct ctggctttta aaacttcg 418
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<210> 4143  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-H1

<400> 4143

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catcgagag gagacgatct tacgcgacga atccttgaga gattgagagg gacaagcgag 120
ttttgtaggt gtctcagacc ggaccaaggt attgttgacg gtctatattg aacaagtaaa 180
caaggatgcy taagtggatc tgttgatcat gtcaaataga agactcaaata gaagagcaac 240
aactgaaaag ttcacagcag caatctgatg caaatcataa gaattcaaaa ccagcacctg 300
ttgcaaaaca tgagggttaag aaggaagctc ttcccatcga ggtccctccc ttgtctttgg 360
atgagggtcaa ggaaaagact gaaaattttg gattcaaggc actgattggt gaaaggctct 420
atggggagaat atattatgcy aactaaatg aaggngttgg gggttgcccc aaaaaaaatt 480
tgatttc 487
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<210> 4144  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-H10

<400> 4144  
  
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 acgacggtga acatgaccta ggcctaattg ttacagattt tctggaaacn ggaggtggta 120  
 gcggtggtgc tggttcctgg tgcagcagcg acagngattc tggattccca natecttctt 180  
 acctttccna taagattcag tatctcaagt actctatggc tcaacacgaa acngangttc 240  
 tcncggtggt tcgtacattg atgcttacta ttaaggagaa agatctacac tcctgtgaaa 300  
 tccggtacat gtaacgctan ttgcatcagg ttttatctcg ctaagctttt ganacnttcn 360  
 ggatatgatg catctgtatg ttcaaccaga tggcanggtg gtgggaaaag ttccctgggt 420  
 ggg 423

<210> 4145  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-H11

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 tttttcctcg ttattctgta attttgttcc tttcaggtgt tgtttccgga attcgggaata 180  
 gttctttgtt gttgtgctta ttatactggt tagtttgtga gaatgtgcat tgttggaac 240  
 aagaagggaa accgatcatt gaaggaaata ggaactttta tgatgactac atgtttcatt 300  
 gctaattacc aatccgttca agtttgccag gctgaatatt tcagacagtt gcttaagcct 360  
 gtaacgtagt ctagcgtctg gagttttcng gaaattgggg ttttgaaccg gctaactact 420  
 tttgatttcg aaaaaaattt actgtgag 448

<210> 4146  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-H12  
  
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 attaaatccc taaaaacaaa cgagcgtatt gttatgaagg aggacgaaga agaagaagca 120  
 gtgatatcga acggcatgaa cgacgacgac gatactaaca atattaacaa cagttccact 180  
 gaatttgata acaatcgtat cggagacgga gacgataaca gtaatctgaa tcagatcaaa 240  
 caagtatggg gaacgtggga ggagttggtg ttaacatgcy ccgttaaacy tcatgctttt 300  
 tccgattggg actccgtcgc taaggagggt caggctcgtt cccggagttc tctcatcgtt 360  
 tccgccgtca attgcagggt taagtatcaa gatttcaaac gtaggttcca aagattccgt 420  
 cgacgtcggg gacgaaaata ccgaagcggc ggccaacgaa ggaggatga 469

<210> 4147  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-H2  
  
 <400> 4147  
  
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 aacgtctaag agttaaagag agcttttgggt ttttctttcc catgtctatc agtatcacca 120  
 ccgagaaaat atcatcaaca ccaccaacca nacattaacc caccgagag tacccaatgc 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncacca ccatctgtac 240  
 aaagcaaagt tatcatcaaa ggaaacaaa ccattctgag tttcaaagct attttccggc 300  
 ttggtttctt cagcaccacc aatggttcct ccaattggta cttgggtatc tcttacgctt 360  
 ctatgccaac tcccaccac gtttgggtcg ccaatcgaat ccgaccggtt tcggatcctg 420  
 actcttccac tctcgagctc aactccaccg gataactaan cgtcagttac 470

<210> 4148  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-H4  
  
 <400> 4148  
  
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 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnncaatc aatctctagg gttcttcttc 180  
 agcaatactt cagaagctgg ttttggccat ggaacccaat gggtagagga aagaaagaag 240  
 aaaggaacaa catttgggga gaatgaatgg tgggtgggtgat gatgttgaga ctgatcttga 300  
 tccatggact gcatgggctt acaagcctcg cactatctct cttctcctta ttggcgcttg 360  
 ttttctcatt tgggctagtg gagctcttga tcttgacagc actacatctg atgatcttgt 420  
 cacttctgtc aaaaggggaa tgtgggctaa gatngctgtc cttcctgcta ntccttggcc 480  
 ca 482

<210> 4149  
 <211> 377  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-053-Q1-E1-A7  
  
 <400> 4149  
  
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 ttgacggaaa ctttattagg ctccaactgc gaacatatat tcaaaaacta gacgggttttc 180  
 ttggacagca caaatttgac cacattactg agccatctga attgatccat gaattgctaa 240  
 tataccttaa ggataaaact acagagataa caaaatttga gatgttccaa aatgatatat 300  
 acataaggag acatcatcca gggcagctga ntctttcagg cacggtaagg gttacacttg 360  
 cagtgccata gacacaa 377

<210> 4150  
 <211> 382  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-053-Q1-E1-A9  
  
 <400> 4150  
  
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 gaatcacgaa gacatggaaa aaacagaatc tgtatcagga aaggggaaga gagtgattgt 120  
 tatcgggcgc ggaatcgccg gctctctcgc ttcgaaattt cttcaattcg attccgatct 180  
 caccctcatt gatccgaagg agtattttga gattatttgg gcaagtttaa ggtcaatggt 240  
 agagccagct tttgctgaaa gatcggatgat aaaccacaan aagtatttac aaaatggctg 300  
 tagttgtgac ttctccaccg gttaatatca cagacaccgg atgttttgac cgccggatgg 360  
 gtcttggtct ttgggggatg nt 382

<210> 4151  
 <211> 399  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-053-Q1-E1-B12  
  
 <400> 4151  
  
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 caacgcgact agattcaatg taactccacg gagcagagcc gccaccgtcg tcgcggcatc 180  
 cgtcaccgac ctagccgggg tgcacagtac aacaatcgcc gtactcngtg gaggatccgt 240  
 agcagcactc gcggcgatgg tttccttaac ggatccngag aggaggcgga aattgcaggc 300  
 ggaggaagtt ggcggaggcc ataangaggt tgtgaggga gtatttcaat aacacggggg 360  
 tcgagaggtg gnggaagatc tacgggtgaga ctgangaag 399

<210> 4152  
 <211> 400  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-053-Q1-E1-B4

<400> 4152

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tgaacacatt cgctatgaaa gtcctacgag gatcgttcga taaaggagac accgagtatg 180  
aggagatcga acggccagta gcgtatagga gagtgatgac gacttgggga gattgggtgg 240  
aacgaaatat tgatcctcta cgtaccactg tcttctttgc naagcatgtc tectcttcac 300  
atcaagagct tggattggga agaatccaga tgggatcaag tgtgcantta gnagacgaca 360  
ccaatccgta agacatgtca atgccattca gcggtangaa 400

<210> 4153  
<211> 396  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-053-Q1-E1-B7

<400> 4153

catcaaattc actcacgaaa atgtcaaggc catgatattg gatattgttg tgccgggaac 60  
tgacacggcg gctgcagtgg tggatgggc catgacttac cttattaagt accctgaagc 120  
aatgaagaaa gctcaagacg aagtgaggag tgtgataggt gacaaaggat atgtctctga 180  
agaagacata cctaattctc cttacctaaa ggcagtcac anaggagtct ctttcgggct 240  
cgaaccagtc atccccattc ttctacacag nggaanctat cgcaagacgc agagataggt 300  
ggctatgata tttccgggcc aaggacnadc attcaagtnn aacncatggg gcgggttctc 360  
cgtgacanan gccgcnttgg gggagacaac cctnaa 396

<210> 4154  
<211> 345  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-053-Q1-E1-C11

<400> 4154

ccaatctcca tcgctccgat ccagattccg atggacgcc aagagcagtc tctccgtcaa 60

tctctttccg agaaatcctc atccgtcgaa gctcagggta acgccgtccg agctctcaag 120

gcttcccgtg cagctaaacc atgaaatcga tgctgccant gagcaactca acaaattgaa 180

gctcgagaaa tctaccgtcg agaaggagct tcagtctatt ancagtagct ccggtaatgg 240

ttegtttanc cgtgaggcnt ttcgaaaagc tgttgtcant acnncgagc ggggtttgtt 300

ctanancnct tcgtntaaga tcnacagtgg ngtcggctgg acttt 345

<210> 4155

<211> 357

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-053-Q1-E1-C12

<400> 4155

tcaaagatcg atttggggat caatcgagga agaagatgac ggaggcgatg ataaggaaga 60

agccaggaat ggcgagtgtg aaggatatgc cgttgcttca ggatgggtcca ccacctggtg 120

gattcgcgcc ggtccgatat gctcgccgga tctccaacac gggacctagc gccatggcta 180

ttttccttac cgtttccggt gcttttgctt ggggcatgta ccaagttggt cagggcaaca 240

aaatccgcag ggcgttgaag gaagagaagt acgctgcacg tagagcaatt ctaccgattc 300

ttcaagctga agaagatgaa aggtttgtgt ctgagtggaa caagtatcna gaatacc 357

<210> 4156

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-052-Q1-E1-G5

<400> 4156

ttttttaact ccgtttaaat tttccgtctg aattttacaa aggaacacta atgtcagctt 60

ttgacggcgt tgaaaatcaa atgaacggtc cagattcatt tctcgtctc tctcaagatc 120

ctcgtgagcc tcgctcatta ttatcatctt cttgtttccc aatcacctc aagttcgttg 180

atgtgtgttta ccgagtcaag atccatggca tgagtaacga ttcttgtaat atcaagaaac 240  
tattaggatt aaaacaaaaa ccgtccgatg agacaagatc gacggaggag aggacgatac 300  
taagcggagt caccggaatg atatcacccg gcgagtttat ggccgttctt ggaccatcgg 360  
gaagtggcaa atcnacgcta ctaaacgcaa tcccaaggga aaacncc 407

<210> 4157  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-E2  
<400> 4157

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ccgcgaaaaag ctaatccaaa actctttaat tatttgcaac aactgatcaa tggctgtaac 120  
aagctcttct tctacttggt atggtttctt catcatcagc cttattgtta tcgtttcttc 180  
attgtttggg acatcatctg cgcagttaaa cgcaacgttt tactcaggca catgccctaa 240  
cgcctctgcc atcgttcgca gcactattca gcaagctctt caatccgatg caagaatcgg 300  
aggcagccta atccgccttc attttcacga ctgttttggt aatggttgcg atgggtcgct 360  
cttgcttgac gacacttcaa gcatccagag cgagaagaac gtccttgcca atgcaaactc 420  
aactagagga ttcaatgttg tcgagagtat caaagncaag ccccca 466

<210> 4158  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-E3  
<400> 4158

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ctacgattgt tctgcccata tgatttgggt cggtagcgca accagacagc tagatgggtgc 120  
ccatgtcgag ttcttaagag gtgttgctaa tcctcttgga atcaaggtga gtgataaaat 180  
ggatccaaag gagctagtga agttgattga gatcttgaat gctgacaata agcctggaag 240



gattacaata atcacaagaa tgggagctga gaatatgaga gtgaagcttc ctcatttgat 300  
cagagaagtg cgacgtgctg gacagattgt gacttgggtc agtgatecaa tgcacggaaa 360  
caccattaag gtccttctg gtctcaagac tcgtcccttt gacgccatct tggctgaagt 420  
gagagctttc ttcgacgtgc acgagcaaga aggtaaccan cccggagga 469

<210> 4159  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-E4  
<400> 4159

acgcgtccga ggatactttg tatggtcatt gttggataac ttcgagtggc aagatgggta 60  
caaaaacagg aaatattanc ttcagaggca tcttttgagt atgcaagaag ctgtttgcat 120  
cnacaaagtg aatgttacag gatactttgt atggtcattg ttggataact tgcagtggna 180  
agatgggtac aaaaacagat ttggactcta ctacgttgat ttcaaaaata acctcacacg 240  
ttacganaaa gaatccggca agtattacaa ggatttcctc agtcaagggtg ttcgtccatc 300  
cgcgctcann aaggatgaag ctttaagcta nttctgtttc aatgtgtttt tcttaagttt 360  
tactttgtga agtgaccaag attcatgang gccctgggtc taananaaag gagtttaatt 420  
ttcctc 426

<210> 4160  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-E5  
<400> 4160

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gcgtgggaaa aaagcaaaag actcagctaa aaagcgacct actagagagg aacgggagag 120  
aaacaaaagc aatgggaaga agagttctta tgctgatcaa cctgtatcat ttgtgtcaag 180  
tggcataatc gattctgaga tagctgttgc aaaaacctca gttgaaaaag ttgcaaaaga 240

ggtagctgaa actactccgg gaacctctaa tggagcagac attggagcat ttgaggtaca 300  
 taccaagagg ttttggatcc aaaatgatgg ctaaaatggg attcatagat ggaggtgggc 360  
 taggaaagga tggtaagggg atagcacagc caatagaagc tggtcagcgt ccgaaatcac 420  
 ttgggttang tctggatttc tccattgaca ctgaagaccc gaatccgtca agttataa 478

<210> 4161  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-E6

<400> 4161

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 agattacttc cgaagatcag aaacaaacac aaactgtgaa tcgttgtttg ttaattctct 120  
 ttaaaatcgc cagaagaaag agatctccgt tttctacaga agaaaagcaa gagagtaaga 180  
 atgggatcgg aacaaaacga tagcacaagc ttcacgcaat cgcaagcttc agagccaaag 240  
 ctatgtgtta aaggatgtgg tttctttgga tcaccatcaa acatggatct ctgttctaaa 300  
 tgttacagag gcatttgtgc tgaggaagct caaacagcag ttgctaaagc tgctgttgaa 360  
 aaatctttca agccttctcc tctcgtagt ctcttcatag caagaacctc ctgntgttg 419

<210> 4162  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-E7

<400> 4162

taataattct ccagaacatt ttgcacattc cgtttcactc cgtgttggtg gatccccaa 60  
 aggtaaaacc tttttcccca gattatttct atttcgttcc tctcttctcg atttcgactg 120  
 attttccggt tttatgctct tctcttttcc attttgaact ccaattttga ttctttaaag 180  
 aaaatgagtt gctttgggtg ttgtggggag gatgatgata tgcataaaac tgctgattat 240  
 ggaggtcgtc ataaccaagc caaacacttt cctccaggaa atgatgcaag gcaccaccaa 300

gcctctgaaa ctgcacagaa gggtcctcca gttgtgaagt tgcagcctat tgaagtacct 360  
attatccctt ttaagtgaac tcaaagaagc aactggatga atttggnct 409

<210> 4163  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-E9

<400> 4163

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gctccgtacg atcacaagga ttcactgatt tctaagcttt tcatagaaag aagaagaaaa 120  
aggcgggaatt cgatggtgga tgcgattcaa gtagctgagc tgagaagatt cgtcgagcag 180  
ttgaaattga atccttcgat tctccacgat cctagtctgg ttttcttcaa agaatatctc 240  
cgaagtttag gagctcaagt tccgaagatt gagaaaactg aaagagatta tgaagataag 300  
gctgagacaa aaccagttt ctctcctaaa cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnacaa gacaatgagc ctctcaagc 420  
cgatgggaga cctactgct gaagtgaccg atgaaaatag ggatgatgct cagtcagaga 480  
agagcaaagc tatggaggc 499

<210> 4164  
<211> 474  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-F1

<400> 4164

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tcacccgact ttaatgatta aataccctga ggctgtagac ttctatgact attacaaggg 120  
gcagatggag ccctgggatg gacctgcttt ggtattgttc agtgatggaa agactgttgg 180  
agcttgccct gaccgcaatg gacttcgacc agctagatat tggcgacaa gtgataatgt 240  
tgtctatgta gcctctgagg tcggagttct tccaatggat gaatcgaaag tcaccatgaa 300

gggtcgtcta ggacctgggt atgatgatat ctgttgactt agagaatgga caggtatatg 360  
 agaacacaga agtgaagaag cgggttgcat catataaccc atatggaaag tgggttagtg 420  
 aaaacctgcg aaacctgaag ccttccaatt anctctcgtc agcgattctg gana 474

<210> 4165  
 <211> 56  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-F11  
 <400> 4165

acgcgtccgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngg 56

<210> 4166  
 <211> 464  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-F2  
 <400> 4166

ccgggnccag aattcccga ncgaccacg cgtccgcgta aagccattat cactaccaat 60  
 ccaaaagagc ttttattaat acaccttact cgtgaccgga ttgcagagt tcacgagctt 120  
 ccgagtcaaa aacactctaa aacaaaacca tgactttggt ccatagactc gatctcatcg 180  
 atccgtacac gtgtacacca ctcatcgcc gtgaaacctc cattgttgaa cttcatcat 240  
 tgttcctagg gtttccttc ttcacgcacg aagacattga agatctcttc gagttttcat 300  
 cacctaatec tctgatcta ttcgaaaccg tgacggatct ggttaagatt aagaaatctc 360  
 cgtcgtcttg caagtacaag gtgattcgtc ggagattaga gccggagtat ccattgaagg 420  
 tatecttggt gaacgtgttt ctgaattggg gatccaangt ttgg 464

<210> 4167  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-F4

<400> 4167

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cgacagttct tgggaagtat gttattccaa ggatgattta cgacgacgtc gttcacgtcc 120  
tgcatttggt tcattattac gtacattatg ttttaaatta cgtgatgata ctggattatc 180  
gggaatcttt tttgatgaac atccagagaa taaaaatcgt cctcctgatt ttcttctttt 240  
cacagcactt acaacactta tcaatagtga cacggatgaa ggacgacatg cattagaagg 300  
tttactttgt atcatacaat taccacatcc taaaattgcc aattttattg tagatcaaac 360  
aacattttgt atgcgattgg taaaaggatt agaagaacga tataaacgtg taccattgac 420  
atttgatacc aatgtgactg aattaccaat atcacatcca cataatggcc ccaaggctgg 480

<210> 4168

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-052-Q1-E1-G1

<400> 4168

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tgagtatgtt ggaaagctat caatgaatgc ttgcagatct ctggaaatct tttggatgaa 120  
gggaaaatta gatccatagt tgatgagata aagcaagtta tgaccgcaag ctctagtagg 180  
aagcgagaga ggggagagag ggcccatgct gaagactttg acgctgaaga gggagagctt 240  
attaaagagg aaaatgagca agaggaagaa atttttgatc aagtcggtga aatattggga 300  
acattggtta agacattcaa ggccctcattt ctacctttct tcgatgaact gtcctcttac 360  
ttaactccta tgtggggaag agataaaaca gcggaagaga gaaggattgc tatatgcatt 420  
tttgatgatg tancaaaaca atgccgtgaa nctgccct 458

<210> 4169

<211> 448

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-052-Q1-E1-G10

<400> 4169

acgcgtccgc agaaatagag aaaaagtttc aatctttctt catcttcttc ctccaaaatc 60

cttgatttct aaaaaggaga agaagagaag agaacgcgat taccttgatt caccctcttc 120

cttcaggttt gggaggctcg aatactcagg aaatgaaagg ggcaagtggg gctgttaaga 180

agaaacccca ggtgttgaac gaagctgggt aggcggagac ggcggtgga acagtcggag 240

aaagccggaa aattannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnntcg attcttcgag agattgggtga tgataggcct acgnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnngg cgtgacct 448

<210> 4170

<211> 411

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-052-Q1-E1-G12

<400> 4170

ggatctgctt cagatctaaa ngcaatcaaa gagaagaaga agaaagctaa gcgttcccgc 60

aaaaagcagc ttgttcaaga agaggaacga gtaaagggaa aagtcagcat ganggtgtac 120

ttgtcataca tgggtgctgc atataaaggg gctctgattc ctcttattat actcgcacaa 180

gctgctttcc aatttcttca gattgctaag taattgggtg atggcttggg caaatcctca 240

aactgaaggt gacgaatcta aagtggatcc tactctgctt ctcatcgttt atacggcttt 300

agctttcngg agctctgtgg ttcatatttg ttccagctgc tctggttgca acttttggtc 360

ntgcaactgc acagaaactg ttctaaata tgcccaaaaa tttngttcca a 411

<210> 4171

<211> 430

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-052-Q1-E1-E12

<400> 4171

ttgttggctt tgacgatgtt gaaaccgccg ggtgagtttg gggcggatat tgttgttggg 60  
 tcgggtcaga ggtttgggtg tccgatgggt tatggtggtc ctcatgctgc tttcttggct 120  
 acttcacaag agtataagag aatgatgcct gggaggatta ttggtgtag tgttgattct 180  
 tccgggaagc aagctttgcg tatggctatg cagactaggg aacagcatat ccgcagggat 240  
 aaagctacca gcaacatctg taccgctcaa gccttgcttg caaatatgac tgctatgtat 300  
 gctgtttacc atggaccana aggcttaaaa tctattgcac aacgggttca tgggtctcgct 360  
 ggtgtatttg ccttaggatt gaagaaactg ggaactgcac aagtccaaga tcttccttc 420  
 tttgacactg 430

<210> 4172  
 <211> 384  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-G2

<400> 4172  
 acgcgtccgc acacaattgg gaatggacat tgtccacaga tcacaaaccg tctctacaac 60  
 ttcaccggaa aaggagatag tgaccgaac ttagacacgg natacgcagt caaactcaga 120  
 ggaaaatgca agccanctga taccacaacg gctctagaaa tggatccagg aagctttaa 180  
 acgttcgatg aaagttactt caagcttggtg tctcaaagaa gaggattgtt tcaatctgat 240  
 gcanctcttt tagacaatca anaaantaan tcttatgttc tcaagagttt gaatagnan 300  
 ggggtctactt tctttaaaga ctttggtgtc tccatggtaa aaatgggtca gattggantt 360  
 ttaacgggtc angttgggga aatt 384

<210> 4173  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-C1

<400> 4173  
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tccacttaaa accaacccca attctcacca aaaatcgcaa aaaaagattt caactttcga 120  
 taaaccaga tcgaaaaatc agatttttcc aagatcaatc agagagttag agatggagta 180  
 taataacaac aatcagcaat ctttttggca gttcagcgac cagctgagag ttcagacacc 240  
 gaatctagcg aatctgtctc tcaacgactc gatctggagc acaaactctg tcttcaaaga 300  
 gcgtcgaaac ttagacatag cgcgcaccac cgacaagaac aacaaccaga tcgactatta 360  
 tcaagaagaa gacaacttcc gacaacatca attccaactg gaactggaag tcttctgggt 420  
 caaacaacga catgggttta ggattccggg cctgtggggt taaaatccac cggggng 477

<210> 4174  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-C10

<400> 4174

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 tcaaagacag ttctcgggaa gctgtccgtt tcccaaaatg tagatccttt attgaaggaa 120  
 acaaagtctc taggaagatt atctgtttct cagaactctg atccttcgac aaaagaaaca 180  
 aagtccattg gaaggtcatc aacatcacia aattcagagt cctcgatgaa ggaatcaaag 240  
 cctctcggga ggttgtcagt ttctcaaaat tcagacgttt ctaaagagtc aaggacgttt 300  
 tcatccacag gaagtttacc aaggcactcc tcatagggtc agttcgacca atgtatcaaa 360  
 agccacttcg ggtgtttcaa cagccgtctc taatgctgca acgtcaagga ggaattttac 420  
 aaaagctaac ccaaaggcga atcctgtca 449

<210> 4175  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-C11

<400> 4175

acgcgtccgc ccacgcgtcc ggaaaaaagt ggaaattttc ctttaaattt agtttaaaac 60  
 tcatacaaat cttctactc gaccactggg actctccgta agctacttgc tgaattcgat 120



tattgatttt gggcgtagaa gaagatgaag gcacgatga agtttcgtga agagcaaaag 180  
cctcttttta gggctaaagt tcctttaagc atcttaggtt taccctttca atctgggaat 240  
cgtcgccgga gaatccaagg agctcagtct caatctctcc actttcttcg aatctggccc 300  
ttctctcaaa agtcgcttac cgtccaaacg attcgtggaa tcctttctct ctaatcgtca 360  
aaaccggatc gggatcggtc ggttctccga tttcaagctc tatgctcatg agcgtgaat 420  
tcaatctcct aagtcaagga aacccta 447

<210> 4176  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-C6  
<400> 4176

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ttccggtgaa aagccgtccc cgtcgccgtc ctgatcttac cttaccgctt cctcaacgcy 120  
atgtttctct cgctgtacct ctctctctcc cactacttc cggtggttcc ggtggctcta 180  
gtggatctgc gccgtcttct ggtgggttcgg cgtcttcaac gaacactaac agtccatag 240  
aagcgaagaa ctattcggat ttaagtgaga ggtaaccgt atcggaagcg gagcaagtgg 300  
gaacggtata caaagtgatt caccgtccga gttctcgtct atatgcactt aangtgatat 360  
acggtaacca cgaagagact ggtgagaacg tcagatcngt agagaga 407

<210> 4177  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-C8  
<400> 4177

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ttggagagag tgagtgtaga tggacctcat atcacagtct cccaactcaa aaccctaate 120  
caagatcagc ttcatatccc tatccacaac caaaccttat ccaccaatag aaaccttctc 180

ctcgctaaga gcccttctga tttcctagcg ttcaccgaca tggccgatcc taacctccga 240  
atctcgtctc tcaatctagc tcacggctct atggcttacc ttgcttacga aggtgagcgt 300  
acgattcgtg gtggctctgc tgtaacgcct gctggttcct tcgggaggaa gatgaccgtc 360  
gaagatctaa tcgctcgaca gatgcgcgtc ggtcgccaag aagaan 406

<210> 4178  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-C9

<400> 4178

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tcggcatgta catgatcgat gaagccaata tagagacaca tggttttgat ctctctgggc 120  
atctgaagca ccctgcaaaa gagccaagct gggcaagctg ctatgctggg atcgagtagt 180  
tgggatgggt gaaagagaca aaaaccatac atgcataatt tcttgggtca cttggaaaat 240  
gaggctgggc tatggggccc aatcattctg ccatgggcag gttggattag gggaaaagga 300  
ccctcacggt tgggtgacta tgaaaggtgg tggttccaga aacaagttct acagatataa 360  
gcctgcccta agttacatgc gggtttgga catcaaccan gaattgcact tgattaaaat 420  
tgaatccacg ggccgtttga tattangcga gntatcaaca atgcta 466

<210> 4179  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-052-Q1-E1-D12

<400> 4179

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attctttgtc tcgttctcac cgtcatcgtc ttacgtggca caatcggagc cggtaaagttt 180  
ggtacgccgg agaaagatat cgaggagatc cgtgagcatt tcttctacac gcgtaaaccgc 240

ggcgagcctc accgtgtcct cgtcgaggtc tcttccaaaa cgacgtcgtc cgaagacgga 300  
 ggaaatggtg gtaacagcta cgaagacctt cgatatcaac aaagctaate gttgatgaag 360  
 gagacgaaag aggaaatctc naagaccggg actaataaaa ccttaatccc cttgggtccc 420  
 aaagatctct gattgggaat gaancagaga ccttaatttg 460

<210> 4180  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-D2  
 <400> 4180

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 aaccaatgaa gaactgggta gtgaggggtt tcgtgagttc atatctcttg ttgatcttaa 120  
 gaaaaatggt ttccttattg gagattgttg tatgtttggt gtcaagttcc atgggattga 180  
 acctgctaaa cccggaacag cggaaagttt tagcttaata gagaagcctc ttaatcacag 240  
 agtcacttgg atgatgacca tgttctcgtc cttcaaccct ggaaacgttc atcagtctaa 300  
 tgaatttgtc gttggaaccc ggaaatggag aattaaagtt catccaagag ggtctatggg 360  
 tgaaaaagac aaatcatttt ctgtgtatct atcggcacta gggtttgtca ataatgcacc 420  
 aaagactaaa acttacgccg aggttcaaac tgcgtgtaat ggntttaatt ttgccaggga 480  
 ncccatt 487

<210> 4181  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-D5  
 <400> 4181

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 gtcgcttctc tttccatcgt cttcctcgtg aacgaaactt ctcgatcttc ttttcttttt 120  
 tttcacctgt ttttcggtat caccgagaata ctacacttcc cactccactt taccggatat 180

atttccttga ttttctccga ttgtgggtcaa tctggaaaat tattgagaat ctctccctca 240  
 cttaacaaaa agcggttttta atcagataga gagagaggaa aaagcatcaa ccaaaccatg 300  
 gctgcgagaa atttgagaa gatggcttct attgatgctc agctcaggct tcttgctcct 360  
 ggcaaggntt ctgaagacga caaanttaac cgagtacaag gcnccggttac gggt 414

<210> 4182  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-D6

<400> 4182

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 tctttcttag accaaagact tgcagtgggtg taccagtgga tccagagatt caagtcactc 180  
 atcactctcg accettataa cgtgaccaag acatggattg gttcagacat ctgcagttat 240  
 agaggcttcc actgtgacaa tcctctcac aacaaaaccg cagttactgt tgcttccatc 300  
 gatttcaatg gctttcagct ctctgctcca tccatcgaag gatttatcga tcaattcgtc 360  
 gacctagctc tgtttcatgt taactcaaac aattttggag gtacgggtgnc ctccaa 416

<210> 4183  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-D7

<400> 4183

ctctgccatg gctcccgac tatctacttc ttgctcctcc gtcattggctt tctcaacatc 60  
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 atcgcttct tttgtcaggc tccccctcg aaaggtgtta cagagcagga ttgtgatagc 180  
 tgctgcttcg tctgcggctg gtaatccaca gtctgatgct gactttaatc cgtatgaggt 240  
 tcttggtgtt aaccctatag agggatttga caagatcaag caaacttatg gaaggaaact 300

taaagatgct cagaggagcg gtgatgaagc cactgctgct ctacttgaga aggcataatga 360  
 taagctcatg tatgcccag ttgatgaata ngaaaaaggg tgtgactttt ggttcctt 418

<210> 4184  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-D8

<400> 4184

aaaaggaaaa aaagtaatca tcgattcgct ttcacaacct ggaaagctcg aaaagaggaa 60  
 aaaaattcta aagagcttat caagctcact tcatacacct agatcgattt agggttcgtt 120  
 tgattttttt ttttctgtga ttgcgacagc tagagatcta tctctggtgg attttgggtt 180  
 tatgttccat ggcggatcgc ggatctttcg gatttgcctc tcgattagat atcaagcaat 240  
 tgctgtcaga agcacaacac aggtggctga gacctgctga gatttgtgaa attcttcgga 300  
 atcatcagaa gtttcatatt gcgtcagagc ctcccaaccg accaccagc ggttcactct 360  
 ttctcttcga taggaaggtg ctcatatatt tccgaaaaga cgggcacaat tgggg 415

<210> 4185  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-052-Q1-E1-E1

<400> 4185

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 caaacaaca acaaaccaga agttttatth ttgttaaaga gtaacaaaa aaaaaaaaaac 120  
 agagtacctt cttcttcaca cacataaaaa gagacggtac caaaaaataa aaacagagca 180  
 aaccacaaaa atggggaagc atttattccg atcatctcct ccaccggaga aaccaacagc 240  
 tcctctctct ctgcggaat cagctgttca agaattgatg agcaacatca acaccgtcat 300  
 atcaaaatgg acttctccgg ctgcttcttc ctccgacgac ttctcttct ccaccaacag 360  
 tcgtcgtgaa gcagaggagt ttgttacagc cgtagacat ctacaaagca cgatgcacgc 420

tttggtttcc gttaaaccctt cctcggggga aactaatcta agcccagaat ccaaaggna 479

<210> 4186  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-E11

<400> 4186

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ttctctatat cttctcctca acttggatat ggggtgaagcc gtagagggtca tgttcggaaa 120  
tgggttcccc gagattcaca aagccacatc acccactcaa accctccact ctaaccagca 180  
agactgccat tggatgaag aaaccatcga tgatgatctc aagtgggtctt ttgccctcaa 240  
cagtgttctc catcaaggaa ctagtgagta ccaagatatt gctctgttgg acaccaaacy 300  
ttttggaaag gtgcttgtga ttgatgggaa aatgcaaagt gctgagagag atgagtttat 360  
ctaccatgaa tgtttgatcc atcccgtctc ccttttccat cccaacccca agactgtgtt 420  
tataatggga ggaggtgaag gctctgc 447

<210> 4187  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-B9

<400> 4187

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cttgctgagg atgggaaaaa gatggctaag aaattacgga attatccacc acctttggaa 120  
gtcatagatg agtatggggc tgatgctgtg cgattgtacc tgataaattc tccggttgta 180  
cgtgctgagc cactacgctt caaaaaagaa ggagtactcg gtgttgtaaa agatgtattc 240  
cttccatggg acaatgcata tcgggttcctc gttcagaatg caaagagact tgagactgaa 300  
gggtgggtgtg ccctttgttc ctactgatct ggcaactata caagtcagca aacattcttg 360  
atcagtggat tcactcagct acgcagagtc ttgttcgttt tgtccgagag gagatggatg 420  
cctatcggct ttacactgtg gttcctcgtc 450

<210> 4188  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-C9

<400> 4188

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cacgcgtccg cccacgcgtc cggaacatc tgggccaacg actttgctgc gtcctaagc 60
accttgcatt cacttgaagg cattgttggc aaagacaagc ttgtggcnc aacctcctgc 120
tctcttctcc acaccgctgt tgatcttctc aatganacta agcttganna tgaaatcaag 180
tcatgggttg cgtttgctgc ccanaaggc gttgaantga acgctttggc caaggctttg 240
gctggtcata angacnangc tcttttctct gccaatgctg cggctttggc ttcaaggaga 300
tcttcccaa gagtcaccaa cgaagggtgt ccagaacgct gctgctgctt tganagggat 360
ctgaccaccg tcggtgcacc caantgttan tgctaggcta aangctcagc anaagaagct 420
caatctccca natectacc 439
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<210> 4189  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-D10

<400> 4189

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acgcntccgg cgaaccagac agctagatgg tgcccatgct gagttcttaa gaggtgttgc 60
taatcctctt ggaatcaagg tgagtataa aatggatcca aaggagctag tgaagttgat 120
tganatcttg aatgctgaca ataactctgn aaggattaca ataatcaca gaatgggagc 180
tgagaatatg agagtgaanc ttcctcattt gatcagagaa gtgcgacgtg ctggacagat 240
tgtgacttgg gtcagtgatc caatgcacgg naacaccatt aaggctcctt gtggtctcaa 300
gactcgtccc tttgacgcca tcttggtga agtgagagct ttcttcgaca tgcacnagca 360
acaaggtagc cccccngac ngaantcngc gnggnaagtg ggggggtcag gg 412
```

<210> 4190

<211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-D11  
  
 <400> 4190

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ttccctcgta aacatcgctg tctctaaaga tggcctctct ctcaggccta tactcttctt   60
ctccatctct caaacctgcc aaaaaccatt cctttaaagc attgccggcg caatctcgag  120
attccttctc tttcccatat acctccaaac ccaccaatct accgttgact ctctcctcgg  180
ctcgttctgt ggcacgcgac atttctcatg cggattcgaa gaaagagctt ctttaaggatc  240
cggatgcgtt gtggaagcga tacctcgatt ggttttatca gnaggaaaga gcttggggtg  300
tatctggata ttagtcgggt cggatttacc gatgagtttg tggctgaaat ggagccaagg  360
tttcaagctg cgtttaaggc tatggaggat cttgaaaaag ggtctatnag cg          412
  
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<210> 4191  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-D2  
  
 <400> 4191

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aaaaccgcct ttttaggcaa ttgctctgt gggaagccgt tagatgcttg ccctgtcaat   60
ggcactggaa acggtactgt gacgcctgga ggaaaaggga aaagcgacaa gttatctgcc  120
ggagctattg tcggaatagt gatcggctgt ttcgtcttgc ttctcgtgct tttcttgatc  180
gtgttctgtc tctgtacaaa gaagaagaaa gagcaagtcg tccaatcgag aagcatcgaa  240
gcagctcctg ttccgacctc atcagcagcc gtggctaagg aatcgaatgg tcctcctgcg  300
gtggtggcta atggtgcatc tgaaaatggg gtatcaaaga accctgctgc agtgagtaaa  360
gatctgacat ttttcgtgaa atcnttcggc gagtttgatc ttgatggatt g          411
  
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<210> 4192  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB22-050-Q1-E1-D5

<400> 4192

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tgttctcggg tttccaatgg gagcttcgaa gtctgacgtt tggacctctg aacctgcttc 120  
tgtctctgag aggcgttcca agctttttaa cgaaatgggt cttagccgtg acccggttct 180  
ctcccgggta aaacccggtt cagattcttc cagctccaaa gataccggag ccgccgggctt 240  
cgagatttct cgatcgatct cgtgtaatca attggctcgg cgagatcatg gagagtgttc 300  
tgaaagtgtc ggccggttggt cttcntgtat cgtgagatcg aaatcnggac attaccacta 360  
ngccaatgtg gtgacgtga ccgtcgatat acgtctcctg ggtaatccgt gttcttggtc 420  
cgtctcctaa actctctggt catcantc 448

<210> 4193  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-050-Q1-E1-D6

<400> 4193

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aactggatt tcagtaaag ggatttgc atgggtcaaa cctctactag cagcgtcctc 120  
accaattccg cttccacgag cgctcccga ccggcgatgc aggaacggga gattgacctc 180  
tccaaactcg atatgaagca cgtcctcgct caccgtactt acggcactgt ctaccgcggt 240  
gtctacgccg gncaagaagt cgcagtga aa gtgttagatt ggggagaaga tggttacgcc 300  
acaccangct gaaactacag ctncctgtgc ttccttcgag caagaggctc ccgtctggca 360  
gaagctcgat natccaacg ttaccaagtt tatatgagca tcanggaac ctctgatctg 420  
cggntccctc ctgctgntga tanctggcng gcngtggtaa cnggtgcana tccctgcgan 480  
gggcctggtg tggtg 495

<210> 4194  
<211> 386  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-050-Q1-E1-D7

<400> 4194

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atcttccatt gcctccagtg cttgctgtta aaactgatga tactgaagaa accagtatgg 180  
ctctttgttt ttttctttgc ttgctttac agtttacata gctttatgat tcttaaggtc 240  
taaattcttt ggaatatagt cttttcttaa aactgctagc tgtgaatcca cactggtgat 300  
gcatttctga tccaagatgt taaacacca tattgagacc ttgaaaatgt cataaggaaa 360  
gtaatggaga cacatacgtc antttt 386

<210> 4195

<211> 499

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-050-Q1-E1-E3

<400> 4195

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ccttcccaat tcttccgttc aaacaaattt ctccaaaccc aaaccctaatt ttcctccgtc 120  
tgtgaaatca agggttttct ctgatctggg ttttgatcag aaatcagatc taggtttaat 180  
tttcgaaatc aaattatgag gaagagagaa agagagaacc cttgttcgat ttgtgggcat 240  
taccataagt acgaggaagg agaagtatgt ggagtctgtg gtcactgtat gcctgtttct 300  
tccgatacgg gtggcgccgc aacaagtcca cgtcagtgtt tttccgtcgg agattctccc 360  
tgagtttctt tacctcggtg agttacgaca acgcttctcg ctctgagctt cttaaagact 420  
caanggaatc tcttccgtgt tctaataaac ggttcctang ngccangaat cctctaacag 480  
ggaattcaat tcaacntta 499

<210> 4196

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-050-Q1-E1-E4

<400> 4196

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tgggagtctt cttgagctct gtaatcactc tctagaagct tattttgcct cctaagtgtta 120  
ttagggtggt gtactggaat tattaggatg aaccaaggaa gatgagtctc tcggtctttc 180  
aaaaaccaag tcttgtaatg aggagctgtc cactgttgta aagtaagtca ttaanatgga 240  
atcctttgca gggtcttggt aaattgttga ggagaaggat gcggttaaggt tagccaaaca 300  
ttctagcaga tattgtatgt cacctttggg atcaagtaaa gatatggagc agcgtcctgc 360  
attgaagtca gggtagcaag gttctatgga gtatgacatt gatcaagctt ttccaagtct 420  
ataactataa aaccatcaac ctaagaagag t 451

<210> 4197

<211> 430

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-050-Q1-E1-E5

<400> 4197

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cagaaaccga atccgaatcc gattcaccga aacacagcga agagcatgaa catccagagc 120  
aagaacatcc agagcaatct gaatctaacg acgacggtgg atggagcttc ggtggtctga 180  
tgaaaactct agccaccaga tccgaatccg tgattgaaac ctaccgacga gatctcnaag 240  
aatttggcac angtttgaag aaagagatcg angtggctca gggatcgctt ggtacggtgg 300  
gacatgcgat tgatgagctt gggaacacng tgctaaaagg tacggctgan attantgctc 360  
aaggtaagga agcgatttta gccggctggt aangnatctg aatcctctga tagcagtagt 420  
agtcnagagt 430

<210> 4198

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-050-Q1-E1-E7

<400> 4198

taagctgcaa atttgggata ctgctggaca ggagcgtttc aggaccatca ctagcagcta 60

ttacagagga gctcatggaa tcattattgt ttatgactgt actgagatgg aaagcttcaa 120

caatgtgaag cagtgggtga gtgagatcga tagatatgcc aatgagagtg tttgcaagct 180

tttaatcggc aacaagaatg atatgggtga aagcaaagtt gtttccaccg aaactggaag 240

ggccttagca gatgagcttg gaattccctt tcttgagacc agtgccaagg attctattaa 300

cgttgaacag gcattcttaa ctattgctgg cgagatanaa aagaaaatgg gaagccaaac 360

gaatgcaaac aaggacatct gggtcctgga actgtcccaa atgaaaggtc aaccan 416

<210> 4199

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-050-Q1-E1-E9

<400> 4199

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agcttcatag ccggaatctt attattccgc catcaatggc aaccgttggt ttcaaaaggc 120

atcacttctt aggagtctct tcttatgggt tatgtattga tgaatctgta aggcataatga 180

gaagcctaag gtcgtcgagc aatcgtcggc gagtaagtaa aagcgccggc gtgtctatgc 240

cggatggctc ctctgatgat tttccagcgg tttcttgga gtcttggaan gccggaaaag 300

accacngtgg ctngtcgnt gactgacgtc atctggcctg caagcaggag cctttgcggc 360

gatgggcgat aatggggaag aatagatnaa atgctaaacc ctaanaggga tctcaatgtc 420

ngttgc 426

<210> 4200

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-050-Q1-E1-F1

<400> 4200

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tcgtttcttc attttccgcy tgttgattgg tacaaagggt taatcaaatz gttggaggag 180  
gagttatcca gcaaattctt aggaggaagc ttcactccca atcacttgca actccggttt 240  
tgtcttggnr ttcttcgaag aaagctcatn aggatgctgg ttcttctggn gtaagagcac 300  
ttgccttggt ggggtgctgg gttacaggac tgttgagttt ttctacanta gcatctgctg 360  
atgaagctga acatgggttt ggagantcca gaagtaccct tggcctcaag aatggcattn 420  
cttagctcat natgaccaag gcttcgatcc gtccgtgggg catcaagttt atcaagcaaa 480  
gtcctgtnga atcagg 496

<210> 4201  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-050-Q1-E1-F10

<400> 4201

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gacgtcaaca acaaatttat cgacaccgct ttcgctatan acaacactta ctttctcttc 120  
tccgcctacc ttgtcttctc tatgcagctt ggcttcgcta tgctctgtgc cggttccgtg 180  
agagccaaga atactatgaa catcatgctt accaacgtcc ttgacgctgc agccggtggc 240  
ctcttctatt atctgtttgg ctacgccttt gcctttggat ctccgtccaa tggtttcac 300  
ggtaaact actttgggtc tcaaagacat cccacggcc tctgctgact actccaact 360  
tctctaccaa tgggccttg caatcgctnc ggctggaatc acaagtggct cgatcgctga 420  
acggacacaa gttcgngg 438

<210> 4202  
<211> 447  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-050-Q1-E1-C8

<400> 4202

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aggacagtcc agtgataata gaatgctcag actttaactc caatggcaaa cacagtctga 180  
ttgggaaagt tcagaaatcg ctttcagact tagaaaaact tcatttggcg ggccaaggaa 240  
tcaatttttc tttgectact ggtgctggac anaacaaggt gttaaagagc caactttttg 300  
tgngacaagt ttaccgagac tgtccaccac acattcctag aagtacttgg catctggatt 360  
tgagttaaac tttatggtag caatcgattt cacagettca aatggaaatc cccgcctccc 420  
ctgaantcnt tgcactacat tgatcct 447

<210> 4203

<211> 469

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-049-Q1-E1-H10

<400> 4203

ggtcnaaaat tcccgggccg acccacgcgt ccgnaaacat agtaggtant ncaatatgta 60  
ttgncntgac gagtacaanc caaaatgtgt ttagtattat aaaaacggct tgttcgtatt 120  
ctctttcttc gctcaacaca tgaagctcaa gtgatccacc gtggtttagca aaaggacggc 180  
tcacatcatg actatattcg cgagagatct catctatagg atcgaaacga aggttttgtt 240  
gccgctcttc cttgtccatt tgttacctta tgtaacatgc cagcaagagt cagaatccgt 300  
anaccgcaat agaaaaacca atttcccaac ggaaacggta atcgcaatca ttgtgcttgc 360  
aatatttatc tcattaagca tggtcgcttg tttcttgac aaaacattct atagagcaga 420  
ggttgaggcg gcaagccaag aagtgtttca caagtagaac gangggttg 469

<210> 4204

<211> 488

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-049-Q1-E1-H11

<400> 4204

tgttacgccg cccggtaccg ggtccaanaa ttcccgggtc gacccaacgcg tccgcttctc 60  
cggccctaataatggcttgc agagcanaag aacttgtgtc gttaatcttg tanaagatct 120  
gtaatcccaa aaggtctgat tccaaaattg aggaacatgt ggaagaagta gaggatttga 180  
aagcagaggc ataactcttt aggtctggtt ccaaaaattga gaagcatgtt gaagaantac 240  
aggatttгна agcagaggca gaactcttta ngttgaaagc aatctcagga acagaggaac 300  
tgaaagcagt ggcagatgtc aagaggttga gaacaatctt aagaanacaa tagtggggaac 360  
ctcagaggag tgtaaggggtg agatgttgaa agaagatctt tttcttccct cggatcttgt 420  
acgtctcata ntgtctcgtc tttctttcaa agacaacaaa cgctcttcta ctgtttgcaa 480  
ggcanggg 488

<210> 4205

<211> 482

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-049-Q1-E1-H2

<400> 4205

tacttgccng ccggtacaag tcnagcngct cgggcacncg tccgcncacg cgtccggggcg 60  
gtctggatac gaagcttata aagtcagtca caacttactc ttgtcgcata cttacgctgt 120  
tgacgcattc agaaactgca aacagtgtgc tggaggtaaa attggaattg cacacagtcc 180  
ancttggttc gaaccacaag accttgagca tgttgagggt tccattgaac gtgtgcttga 240  
tttcatccta ggatggcatt tggctccaac aacttatgga gattatccac aatcgatgaa 300  
ggatcgtgtc ggtcatagat tgccaaaatt cacagaagct gagaagaagt tgccaaangg 360  
ttctacagat tacgtnggaa tgaattacta gacttcagtg ttgcaaaaag aaattagccc 420  
tgatcctaag agtccgagtt ggacgactga ttcnccctgt tgattgggat ancaagatgt 480  
gg 482

<210> 4206  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-049-Q1-E1-H6  
  
 <400> 4206

```

acgtccncna nctcaaccct ttaantgcat ctacgacagt cgtacctttt gctaggttan   60
cgtcgtcatg atgcagcagc cacctccagc ttccaacggg gctgcaacag ggccagggna  120
nattccttcc gaccaacaag cttacctcca gcagcancag tcgtggatga tgcagcacca  180
gcagcaacaa caaggtcagc cgctgcagg atgggatcag cagtctgcac ngctcttctgg  240
tcaaccacag cagcagcatt atgggtgggtg tggatctcag aatccaggat cagntgggtg  300
agatccggtc cctgtggntc ggtgacttgc aagccatgga tggatgagan ctatctcatg  360
aacgtctttg ggtcgtactg gcgacgctac ancagntana gttattccca ntagacaagn  420
gcggatattc agaagggt                                     438
  
```

<210> 4207  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-049-Q1-E1-H9  
  
 <400> 4207

```

cttcaatcat ttgtagcagt aagaacgaat tcngnaccta taaattcanc naaccgtcnc   60
gtttctgtat tcggacgcaa gtcttctctt ctttcaantt gggtaacncnc anagttgtnt  120
cancgatggc ttacnanaaa gagcttgatg ctgctaagaa agctgcttca ctcgctgctc  180
gtctctgtca gaaagttcaa aangctttgt tgcaatcaga tgtgcaatca aaatctgata  240
aanagtccag tgaccgttgc tgattatggg tcacaagcag ttgttagttt agtcttanga  300
aaaagagctc aagttctgaa nccttttcat tgggtggctga agaggactca cgcnatctac  360
ncaaggatgg ttctcangag actctggagc gcatcacaaa actcgtggaa cgan         414
  
```

<210> 4208



<211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-A6

<400> 4208

```
acgcgtccgg gagcacggta acacacaatc tgggtgctgct aaggtatcca ttgtaatgat 60
tgggcaacaa gcgatcatgg atgcttattt gtgcctctta catctaacag ccggtatatt 120
agtcgaatct ctatttaatg catttgcaac cgctgcgttc ttcaagttcg tagtcttttc 180
gattttttgag atgagatata ttctggctat atggaaagca acccgtcctt ccaatagcgg 240
agaggggttg gaaacaatga ggagagaact gtcctttctg tacagtcgtt tctatgggat 300
ccttcttgga ggcattttga nantgtacca agttccacaa ctacatgcan gccgattctc 360
cntctcatgt actcattttg gataccacan atagtcgcca aatgtngtcc ggggattcag 420
gaaagnctct gcacccatat tacatct 447
```

<210> 4209  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-A8

<400> 4209

```
acgcgtccga ttgattaac aggcttcttg tccatgagcc ggaaaagcga ctgggggcga 60
acggtgctgc agaggtaaag tcgcatccct tttttcaagg agttgactgg gagaatcttg 120
ctttgcaaaa ggctgctttt gttccgcaac ctgagagtat aaatgacaca agctatttcg 180
tatcacgctt tagtgaaagc agttgcangc gatactgaaa ctggtaacaa cagtgggtca 240
aatccagatt caggagacga gttggatgaa tgcaccaacc tgggagaagt ttgattctcc 300
gccttattat ctctcgctca ttaacttttc tttcaagaat ttgtcacaat tgggcttcan 360
tcaancatga tgtgctagtt gcaaaaaggn ttcagntana gggagganga gactcacct 420
ttaaaggcca tgggnacgt 439
```

<210> 4210

<211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-B10

<400> 4210

```
acgcntccgg cagtctccca ctgattcagc agctctttga actactcttc gacaatggcc 60
gaacgtgggtg ganaacgtgg tgttgagcgt ggtggagaac gtggtgattt cggacnagga 120
ttcggagggcc gtggaggctg tggagatcgt ggagggcggtg gacgtggagg cegtgggtggt 180
cgtcgtggag ggcgtgccag tgaanaagag aaatgggttc cagtgaccaa ncttggctcgt 240
ctcgtggcgg ctggtcatat caagcagata gagcagatct atcttcattc actcccgggt 300
aaggagtacc agatcattga tatgctcatc ggtccaacat tgaaggatga ggtaatgaaa 360
atcatgccgg ttcagaaaca aaccanggtt ggtcaaagga ctagattcaa ngcctttgtt 420
gtcgttggan atggg 435
```

<210> 4211  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-B2

<400> 4211

```
gaaagcaggt ggttaccgtc tcttctttgt gctaatgcca ataagatcgc tataaacgcg 60
gcttttaggtt ttgacagcta catggnaatg cgccatggtg ctggccccac ctctctgtct 120
gatgatatgc agaatttga cataaacaag acanatacac agagacttgg ttgttacttc 180
tgcaacgacg tggttgcacc tcangattca atgactgac gaactctaga ccaacaatgc 240
actgttacac gcccgggtct agctcctatt gcangagctc tcgccgttga actcttagtc 300
ggagtcctac aacacccact tggtatcaat gcaaaaggcg acanttcgag cntgagtaat 360
acacggaaan aatgatgaat tcgcctcn cn gggatantac ctcatcagat acgnggctc 419
```

<210> 4212  
 <211> 423  
 <212> DNA

<213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-B4

<400> 4212

```

tttagcaact ctttatttct cggctcacac actccgatta agcccgacgc tctctctcct   60
ctttgtcgtc gtcacatcgc tctccggagt aggttgcaga aattcagatc tgaactctca  120
gacgaagctc cgatcttact gagacatttt tgctcgattt gactttcgcc tttaaagctt  180
ctcagagatt attgtactga attaatggcg aattctcgtc aatattatcc atctcaagat  240
gaatcaatgt ccccgacttc tgtgangatc aagggaatgg gaaggtcctt ccagatggac  300
tgaggtactt gggacctgaa atggctgcat cagtgtcttc tactaggagc tctaagcaaa  360
ttgatggaca tgttggtggt tccacaaagg gcttgaacat acaatggggg agttcaaattg  420
att                                                                 423

```

<210> 4213  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-050-Q1-E1-B8  
 <400> 4213

```

acgcgtccgc ttttaccttt ttcttctggt caggtttcat ttctctcag agtttgatga   60
tggcaaaaga agttgcagaa ggcgattagc cggtcacaat gaacgaagaa ggaaacctgc  120
attctatttc ctaccgggta agcgccataa gcttcttcgc acctctcaag atgtagtagg  180
caacaagttt ctggagaatt catcattggt attgccagag tcatttcctg gtagtctctt  240
atacagagta atagatgaag acgaccaccg tacaagtaga ctctgtgagtt tcaaagatga  300
acctacttgt tccatgtttc ctactaatga gcaaaacagc agcaagaact tatgaatcta  360
aaccagcaat ttattccacg gaagtatcct ccatttggga cttacatgag acggcggcat  420
cacgctctac tcgtggctct ctctc                                                                 445

```

<210> 4214  
 <211> 512  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-050-Q1-E1-C4

<400> 4214

ntgtttacgc tgccggtacc ggggtccaaaa ttcacggggt cgacccacgc gtccgggaca 60  
aatccagcta ctaagttnc cttggataat caatcaaaga ctccgcgcgc aagtcctaag 120  
tccaacctca aaactaagta nggaggggaat tcaagattca agctttctgac caatcacctt 180  
caagttccag tggagatgca cagagccgta ctgatcggat tgtgttcaaa ctctttggga 240  
aagagccgaa tgattttcca gttgccttac gaggacagat tcttaactgg ttagcgcata 300  
ctccaactga tatggagagc tacattagac ctggttgat cgttttgacc atttatcttc 360  
gtcaagatga agcttcttgg gaagaacttt gttgtgatct gaagtttcag cttgaggagg 420  
cttctagatc tttcagatga tnccttatgg actgatgggg tggctttatc ttaaggggtgc 480  
aaaaaccaac tcgcatttgc gttaatgggc ag 512

<210> 4215  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-050-Q1-E1-C6

<400> 4215

cttctctctgc ttcaatggcc gaatttccag aaccggggcac tgtaaaccct gactcggatc 60  
tatcgaatgg tcgagctgag aagcctgaga tagacacttc ggctccgttc gagtcagtga 120  
gagaagcagc cactcggttc ggcgggttttg gtttctggag accttctctc aataaactcc 180  
cagatgcttc tcaggaaaat atccaagaac ctgatatcat gggactcaaa gcacaagctt 240  
tcgagctaca aagagaacta attgttaaag aacgcgaaac gctaagaggt gttgaaggag 300  
cttgaggcga ctaaagccac agtcttaaag ctgcagcaga ggaatgaagc ttatgaggag 360  
gacacgttga gagaagaagt tgacagtcac atcaagccag cgggtgtggt tctaaaggat 420  
ttaagccagg cgaagatgaa 440

<210> 4216  
<211> 452

<212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-050-Q1-E1-C7

<400> 4216

```

acgcgtccga acggaagaag gttggcgcaa cagatgttgc tatctgtaga gttgaacagc   60
tttgtccttt cccatatgat ctcatcagc gtgagctcaa gagatatcca aatgcggaga  120
tcgtttggtg ccaagaagag gcgatgaaca tgggagcatt cagctacata tctccacggc  180
tatggacagc aatgagaagc gtaaacagag gagatatgga agacattaag tatgttggtc  240
gtggtccttc tgctgcaact gccacgggtt tctatacttt ccatgtcaaa gagcaagccg  300
ggcttgcca gaaagccatc ggaaaggaac ccatcaatta agaactcttc ctttttaaata  360
ganttctcan actgataang anaaannga naaaactttg aaatnagaaa ctttgggggtg  420
atgcaanaag tgcgaaacaa cactgtcaan aa                                452

```

<210> 4217  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-049-Q1-E1-H1

<400> 4217

```

aactgtcnga naaanaagag tccaagtgag attgtctccg tcaacgatgg ccttaaactg   60
gatcaagatc tctcgagtca gccttgtnnc taactcagtc gaancactcg ttctcccact  120
cactttcttt gatttactan ggctaaaact caatcccata gagcgagtta cntctacaa  180
actcaccgag tcattctctg actccttctt ctentccatc ntccccaaac tegancaatc  240
cctnccctc gtcctctccc acttcctccc actctccggt cacctcaaat ggaacccccca  300
agatcctaaa ncacagatag tcattctcnc caaatanact gtntctctca nagtggtcga  360
gtccgaagct gacttcnctg atatccgcta gcaaanaact tcgtctggag aatgaattac  420
gtcttcttgt c                                431

```

<210> 4218  
 <211> 499

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-049-Q1-E1-E3  
  
 <400> 4218  
  
 cgtttacgcc gcccggtacc ggggtccaaaa ttcccgggtc gacccaacgcg tccggtttgt 60  
 atttgctaatt cagctgatgc agagttgtgg attgtcttta ttctacgtca ttggaaattt 120  
 tgttcattgg cgtaacttgg ccttaatcgg tctcattcca tgtgcggttg aagttgtgac 180  
 tttgttcttt attccagagt cccctagact actgggaaaa tggggacatg aaaaagaatg 240  
 tagagcttca ttgcaaagtc ttcgcggaga tgatgcagat atctctgaag aagccaacac 300  
 tatcaaagaa accatgatct tgtttgatga aggacaaaaa tcgcgggtta tggatttgtt 360  
 tcagagaaga tatgctccat ctggtgttaa tgggtgtggg aacaatgcct cctacaaaca 420  
 actcccctgg gaagcctcaa ggacttaang ttactaatgt tccggtaacc ntattttgat 480  
 aaaagggagg ggtttccaa 499

<210> 4219  
 <211> 398  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-049-Q1-E1-E5  
  
 <400> 4219  
  
 ctctcaaggc ccacaaaaac caaagaccga tcttgccaan ctctctcctg gccaccagg 60  
 atggcccatc ctcggaatc taccgaact attcatgact cgtcctaggt ccaaatattt 120  
 ccgccttgcc atgaaagagc taaaaacaga tatagcatgt ttcaactttg ccggcatccg 180  
 tgccatcacn ataaactccg acgagatcgc tagagaagcg tttagagagc gagacgcaga 240  
 tttggcaaga ccggcctcaa cttttcatca tggagacaat cggagacaat taaaaatcaa 300  
 tgggaatttc accgtacggg gaacaattca tgaagatgaa aagagtgatc acaacggaaa 360  
 ttatgtccgt taagacgttg aaaatgttgg aggctgca 398

<210> 4220  
 <211> 418

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-049-Q1-E1-E6  
  
 <400> 4220

```

ccaccttcct cgtcttctct ctattctccg tcgtttcttc cgaagatctc caagtcttac   60
tcaagctcaa atcatcattc gccgattcca atctcgccgt gttcgattcc tggaaactga   120
actccggtat cggtccttgt agcttcatcg gagtaacctg taattctaga ggcaacgtta   180
cagagattga tctctctcgt cgaggtttat ctgggaattt tccattcgat tcggtttgtg   240
agattcaaga gtctcgaaga aaactctctc tcggattcaa ttcactatct ggaataatcc   300
ccagcgattt gaaaaactgc acgagtttga agtatttgga tctcggcaac aatttattct   360
ccggtgcttt ccctgagttc tcactcttaa atcagttaca gtttcngtac tcaacaac   418
  
```

<210> 4221  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-049-Q1-E1-E7  
  
 <400> 4221

```

gcctgaacaa ctcgccgtct tctcgagaaa catctttctt acttcgcttc attacaagat   60
ctgatganac cagatcggat cttgctctag atccagatgc tccttaactt atttactcga   120
attcatcatc atcgttatca tcaccatgtc actgtttcta aaagacgatt cgattcaaatt   180
ccgtgaagta tggaaacgaca atctcgaatc agagatggct ctgattcgag aagtcgtaga   240
cgatttccca ttcgtagcga tggacacaga gttcccagga atcgtgtgta gaccagtggg   300
gaacattcaa aaccaacaca agagtancac tacgaaactc tcaanacaaa cgtcaacata   360
ctcaagatga ttcagcttgg actcactttc tctgatgaga aaggtaacct cccaacttgt   420
gggaca                                           426
  
```

<210> 4222  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-049-Q1-E1-E9

<400> 4222

acgcgtccgt cttgatcttc ttcttaactt atacctcaaa taatggataa ttatcagacc 60  
aagaatatat ctaatctatt aacttctttg tgttttacca ctctcttaat attagctccg 120  
gtggttatat gcactagaca acaccggttc gatagcccgga aaagaagctt gttggccaac 180  
gagcaagatt tagtgacagg tttgcctgga cagcctgatg tgagtttcag acattatgcc 240  
ggatatgtcc ctgtcgatga atccaacgga agagctatgt tttactgggt ctttgaggcc 300  
atggatctcc cgaaagagaa acctctagtc ctctggctta atggaggtcc aggttgttct 360  
tctgtgggat atggggcaac acaagaaatt ggtccttttc tegtggacac caacggaaac 420  
ggacttaact ttaatc 436

<210> 4223

<211> 432

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-049-Q1-E1-F1

<400> 4223

tctctctctc tctctattgt tgaagaagac tcataatcgg agattgtttg tttttggntt 60  
gctctgtaaa ttggagaagt tttgttagag atcaaattggc tgggatttgt tgcggtgttg 120  
ttggagagac tgaaccggcg gcaccggttg attcaacttc tcgagcttct cttagacgga 180  
ggttagatct acttccgtcg atcaaaattg ttgctgactc cgccgttgct cctccgcttg 240  
aaaactgccg taaacggcag aagcgtgaga cagtagtgct ctcgacgtta ccgggaaatc 300  
tanatctgga ttcgaatgtg aggagttgag aataagaagg ctanatcagc ggttacnaat 360  
tcaaattctg ttacgggaag cagagaattt cctttcccgga tgtanctaaa natcggaac 420  
gaacgtcggg tt 432

<210> 4224

<211> 479

<212> DNA

<213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB22-049-Q1-E1-F2

<400> 4224

cngggccggg tccaagaatn cccgggtcga cccacgcgtc cggttatttt caaaagatga 60  
tgcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nngtcgtatt ggtgttacag ttgtacacga ttcacacagc 180  
tttggaaga tcaagacgca aacgctggag tcttatgtcc ttattgcaac ggtggattca 240  
tcgaagagat tgaagattct tctaattcca ccgtcgcggc gattccggct tcgactccgg 300  
aagttagatc ggttgaggaa acacatagat ctataattag acgtcgtaga tctaactgcc 360  
ggacgtcctt taatccggta atcgtcttac acggcggagg aggaaggagg agcggtgaga 420  
gagttgagaa cgaagaaggt gacggagcta ctagagaacg acgagcttat gaagtttta 479

<210> 4225  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-049-Q1-E1-F3

<400> 4225

agcttaatct atttaaccg caaatgcaga ataccgttg tgtaccacca gncggatggg 60  
ttgtctcag atttancgt aataatcctg gtgtanggct gttccattgn cacatggntg 120  
cacatttacc atacgggatt atgagtgcct tcatagttca aaacgggcca actccggnaa 180  
cgagcttgcc atctccaccg tcgaatcttc cgcaatgcac tcgggatcct acgatctatg 240  
actctcggac gactaacatt ganttgatc actaaangta anttaggttc gttttccatt 300  
tttaaattatt gnccgtacat ttacannttt cacatttttt gggaaatcaa tggttccata 360  
atgtgttgca cacagattgc cctcaataan tgggcgnttt caacntcca aggcgaaacg 420  
ggaanaag 428

<210> 4226  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-049-Q1-E1-F5

<400> 4226

acgcgtccgc tcaaagtcaa cacagctacc ggaagaagat tcgagtctct cggaaatggn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncgaga aatcagacgg 120  
cggagaaggg aaggcgctcg ggggtggggaa ggacgggaag gtgtaccata gccacgatgg 180  
actcgcacct cactcacacg aacccatcta ctctcctggc tacttcagtc gccgagctcc 240  
tccgcttcac gaccgtaact tctctgagag agcttttacc gtcgggtattg gcgggtcccg 300  
tggcactggg aaaacggcat tgatgcttgc tctttgtaga ttcttgaggg acaaatatag 360  
tcttgctgct gtgacaaatg atatattcac gaaagaggat ggtgagtttc tgggtgaagaa 420  
tggggctctt cctgaag 437

<210> 4227  
<211> 400  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-049-Q1-E1-F7

<400> 4227

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ctctcccaaa ataatagaca gtggcttgaa tcagaagacg gtaaaggcat cttctccaac 120  
taatcgggct ttattctctg aaactgatgg agcacgagaa tcaaaagcac ctgcagattc 180  
gcattctcca tcttcatctt caccttcacc gggctcatcg aatttgtcac cctctttgaa 240  
ctctgggagc gaggccatct ctactccaaa cgtggtanct aatagctttg atgcagcggt 300  
ggctantgag aacgaagtaa ttgtaaatga aattgtccat gacaatanca ntagttttgc 360  
tgatagcctc gacnctaaca ctggggatac aagcaacttc 400

<210> 4228  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4228

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caatgtaaca tgggctggag ataaaggctt cgtcaccaac ggcgagccca tgaagattcc 180  
ggacgttgtc aaaaagccaa tcaacactct ccggtacttc ccaactggtc aaaccaactg 240  
ctacaccaac attccggtga caaaaggcca agaaaaccct cgtgaggacg aagttttact 300  
atgagaacta cgacncgaag ttctcgccgc catcttttga tgtgatttat gacgggaaac 360  
accgtgattc caatggnaat taacgagtcc ttgccaaat gaatgaagaa acgttccaat 420  
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<210> 4229

<211> 445

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-049-Q1-E1-G10

<400> 4229

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cttttaacca cttctttctc cattcccagt tcttagaaag agtcaagagc aatgaggaag 180  
cttttcttgt tanggtttat agttgcagga ctggttcttg ggaatgaggc aaatgggtat 240  
ttagagttca atgtcactga attagatcgc attgaggatt taaagtttgg tttctccaan 300  
ttagattcca atttcaatcc attaatgggt ggtctcacac ttatcagagg agctgggttct 360  
aaaggagctg tttgtttgga tggtagattg cctggatatc atttacatcg tggacatgga 420  
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<210> 4230

<211> 445

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-049-Q1-E1-G4

<400> 4230

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aagaagcgcc accggtgaca actttaccga tgaaagcttc aacggtgaaa tctccacaca 180  
actgtgaggc cattctcaga gacgcagatc ctccgatctc tctctcctct gttaatctct 240  
ctgaacagct acggtctggt gttttcttga aaccaagaa acagatcaaa tattgggtgg 300  
acgaagagaa acagcaactg cttcatgctc ttgcaaaaag aaacctctcc tataacttgg 360  
tctgatgac gtcaactatt ggacttgggt taccgaaaaa gagtcaccaa acgaagaaat 420  
gtggaaacct gtggggaatt gaaaa 445

<210> 4231

<211> 457

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-049-Q1-E1-G7

<400> 4231

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncat 120  
ctgcttacgc tcgattcgtc tccctaaacc catcttcaac gagtctaate tccgatggaa 180  
tcgacggtgg ttcaaatctc gccggttccg gatcggttat caagtcggtt gtttcggctc 240  
cggctgagga aaaggaggaa gcttgtgagc agacatacgg ggttaaggcg ttgtacnaag 300  
aacgctcctt gggaaacgtg tttcctgatt ttggnnttaa tggatttctc aatggtttaa 360  
cgggctggcg acgtaacctc ctctgceng gaaagtgagc ttcttcctt gaagatcctt 420  
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<210> 4232

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-049-Q1-E1-E2

<400> 4232

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ccattcattg tttatgcaca acatgtgtat ccgacnaact cangaggagc ttgagagctt 120  
tggactccg gnttttacta tatacaatgc ngggcagttt ccatgtaatc gttacactcn 180  
ttanatgact tcgtccacta gcgtatacct taatctggct aggagggaaa tggttatact 240  
tggactcag tatgctgggg aaatgaagaa nggtcttttc antgtgatgc attaccttat 300  
gcctaagcgt cntantctct cccttcagtc cgggatncaa tatgggaaaa aggatgggaa 360  
aatgtttgcc ccccatcctt tggacttttc aaggtacccg ggnaanacaa acgcctgtcc 420  
taacgggtnc acaaccatgg tatecttatt g 451

<210> 4233

<211> 353

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-H5

<400> 4233

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gtatttaata aggcttcttg atggtgggtg ttctattatt cacattgtcg atcaccttaa 120  
tcttgaggct tggagtgttc cggatgtgct tcgacccctt tatgagtcac ccaaagtcgt 180  
tgcacaaaaa atgaccatct ccgcgttgcg gtatatcagg caattagccc aagagtctaa 240  
tggatgaagta gtgtatggat taggaaggca gctgctgtt cttagaacct ttagccaaag 300  
attaagcagg ggcttcaatg atgcgggttaa tgggtttggt gacgacgggt ggt 353

<210> 4234

<211> 374

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-047-Q1-E1-H7

<400> 4234

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ctgtctttat aaccaggatt tggtaattcc cattgtttca tgggcaattc ttgccgtgga 120  
tctttcaagg acaatctcga ctaaggcgat ancaataagc ctgaagatta ntctaaaacc 180  
tctaccacca acttgtcttc taattccgac cattcaccga acgctgcaga catcattgct 240  
cangaattct ccanagacaa caacagcaac aacancagca angatccagc tcttgttant 300  
cctttaagag aaccaatcat gaggcgtaac ccagacaggt caagcttact atgttccttg 360  
gtcataagac acca 374

<210> 4235  
<211> 362  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-047-Q1-E1-H8  
<400> 4235

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gcagatctac tccttccgca ataaatttta ccggcggagg tatcagatct cgccgatctg 120  
ttgtagcagc tactgtatct tgggcttctc atttgatatt ggggaaacga ggagtagagg 180  
acgatggaaa atctgatctc tctggttaac aagatacaga gagcttgac ggcttttagga 240  
gaccatggag actccagcgc ttacctact ctttgggatt ctttgctgc gatcgccgtc 300  
gttggtggtc agaagctcag ggaagtctc agtctggag agcaatcgtg gggaaaggac 360  
tt 362

<210> 4236  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana  
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<400> 4236

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gtataataac aacaatcagc aatctttttg gcagttcagc gaccagctga gagttcagac 120  
accgaatcta gcgaatctgt ctctcaacga ctcgatctgg agcacaact ctgtcttcaa 180  
agagcgtcga aacttagaca tagccgccac caccgacaag aacaacaanc agatcgacta 240

ttatcagaag aagacaactt cgcacaacat caattccaac tgggaactgga agtcttctgg 300  
 ttcanacaac gacatggggt taggattcgg acctgtgggt tcaaaatcca cgcgcgattt 360  
 aaaccaatc gacanattca actcaccgtt caacgacacg ttggna 406

<210> 4237  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-048-Q1-E1-A4  
 <400> 4237

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 gattttcggg attcattaca gagagatggg gttcctgcag tatcagcaga tgtgaaattt 180  
 gcttcaagta gatttcctaa ttatagaatt ggagctaatt atcaaattt tgntgttaaa 240  
 gacgatccta aagtgatgtc catgaaagag gttgttgccg gtgagacaag cgcagcttat 300  
 ggaccagcag aaacgtttgt ctgttcgtga cctcgtcat aaatttgaga anggtttggc 360  
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 aac 423

<210> 4238  
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 <212> DNA  
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 ggtcaagtct gggaaagtga ttgtttccag acactatgtg gatatgtccc gtatcaaaat 180  
 cgaagggtcta cttgcagctt ttctaaact ggttggatg ggaaaacaag catacctata 240  
 tcgagacgga gaatgtgcga tatgtttatc aagcctattg nagctctgtt cctgnttctt 300

gttacancta aagcagagtt ancattcnag aaggacntgg gccannotta ctttgntenc 360  
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tt 422

<210> 4239  
<211> 363  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 4239

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ttgccggaaa aatgcgtaat ggtgtaacan ctactgattt gggttctaaca gtgactcaaa 180  
tgctgaggaa gcatngcggt gttggaaagt ttgttgagtt ttatggtaac ggcattgagtg 240  
ggctgtctct agctgacagg gcgacaattg ccaatatgtc tcccgagtat ggtgnaacca 300  
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aag 363

<210> 4240  
<211> 416  
<212> DNA  
<213> Arabidopsis thaliana  
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ccggtaagca gccgtaactt gcaatcgatc gccgatctgg atccgttaaa ggatccctcg 180  
cagtccttga agatatcggc gtctccgcc accgggaaca ggatccgtta ccgttcacct 240  
tccgcttctg agctattgga gtctggacta gccaccggat tatccggtaa ccattctcct 300  
acttccgact ctcatcaggg acttgtgtct atcgacggag gaaaaatgac ggcgaagcga 360



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<210> 4241  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-048-Q1-E1-A9

<400> 4241

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ctcaaagcta tctgttacia gcctggctct ctccagttac tcgatcagag gaagcttcct 180  
ttagagacta tttacttaga gattcgtgat gcttcagatg gatggagtgc tattcaggaa 240  
atggttgtag gtggtgctcc tgctatagct attgctgctg ctctttcttt ggctgttgaa 300  
gttttcaact ttcattggtt tgatggatca gcttcagatg ctgttgcttt tcttgagaac 360  
aagttggatt atttagtgc aagccgtcca acagcagtta atcttgaga tgctgctttg 420  
aaacttaaac atgttatagc aaaggccttg gctactgcca c 461

<210> 4242  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-048-Q1-E1-B10

<400> 4242

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ctcgtatcgg gatcttctcc gtcttcgtag ctgtattgtt atctatttct gcattttcct 180  
cagctcagga tctccagatc gtaaatgccg agcgaaggat tgatttaagc tcacatatcg 240  
tgaaggcctt cttgactctc aaggttgaaa atattgggaa agatcctgct gcagaaatgc 300  
ttcttgcttt cccaactaac ccagntcang anttggggca angggaaaan gccctggnaa 360  
ctacgggnaa gaangaagaa gaaacctaatt tggcaataag atgtaaaac 409

<210> 4243  
 <211> 393  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-048-Q1-E1-B11  
  
 <400> 4243

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aagaagaaga ggaagaatgg ctacatgtcc tcctttcgat ttctcgacca aatattacga  120
tggtgacggc ggatgccaga ggcagagcag cttcttcgga ggcacgacgg tgctcgatca  180
aggcgttggc tacgccgtga ttcttggttt tggtgctttc tttgccgtct tcacatcttt  240
tttggtatgg ttagaaaaac gatatgtggg agctcgtcac acatcggaat ggttcaatac  300
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gggctgcgac catactgcaa agttcaaacy tag                                393
  
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<210> 4244  
 <211> 389  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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atcgagccgg gtcaatccga tgtatggagc tcgattttgt ctgagaagaa gaagactgaa  180
tcgagcaagg aactgttcc tccaccgtat gttcatccat tgatgaaacg tgcgagttcc  240
ttgagtgaga aaagcctcga gatttgtact gagagtctcg gatccgagac tggttgcat  300
ggtttctctt cgcatgcac gtcggagact ggagatgctg agatngagat tcatgatgaa  360
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<210> 4245  
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<213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-048-Q1-E1-B6  
 <400> 4245

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tcttcgttta aaggccacta atactttaaa gggatgatgat caagagagta ttcgcaagtt  180
caagaagtta ccaacttccg aatggactca ctacttccac tcgtttgtcg tcgatgtctc  240
ggaaatggat gcgcttagga atgagatcga tgcactaaag ccgaaagtga aaaacacaat  300
catgtcttcc caaggcattg actcgacaaa gaagaagaat ccttatgata tatatgttgg  360
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 <212> DNA  
 <213> Arabidopsis thaliana  
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attagcgacg tgattttacc taaagatatg ttcatttttg gaccactttt aagggttttt  180
catgtcttac tatctcttgt tttctgattt ccctagatct gtatgaaaag ataccaagcc  240
atattgagcc aaagcttctt ccttttccagc gagaaggcat agagtatgtc agccatatgt  300
agtacctgtg gtttttcttt attaccaaat gagtagtaac ttgctctggc tgctctgatga  360
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<210> 4247  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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<400> 4247

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aananagatt cataggatct tttgcttgac aatgaaagaa ggaaaggatg ggtttgttcg 180

agcagatcag attgatctaa aaagcttaga cgagcaacta gagagacact taagcagagc 240

tttgacttta gagaagaaca agaagaaaga tgaagaagac acaaccgccg tcgccatcgg 300

tggctctgct tcttcttccc ctgtcactct aaacggcggc ggatttggtg gcaagaggaa 360

acagagactt gagtggggag atcgatcctt ctaaactat cancangact gttcntgctc 420

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<210> 4248

<211> 373

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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ctctaaattt anntacccat tttttccgat aaatttttgt tgaggaagaa tttttgttgt 120

aaagagagtt taattaaatt atgccttcaa nagaagatga gctgtttccg tcaacgccgg 180

gtaaattcan aattgaccgg tcaaaccgtc atgtccacc gttgtttcgc ttctacnagc 240

accatgtttc tttgggcncct cttcctcatc ggtctcancg cttcttaent gagtttccaa 300

agcttcgtcg attccggtag ccgttatcna accgcttcct ggggggggca tccaatgggg 360

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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-D4

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 cgatagtaac tttctcgaag atggtcggtt tcgccctcaa ggcagctgag aagctcgag 180  
 aagaggggaat aagtgctgag gtaataaatc ttcgatcaat ccgtccgctt gaccgagcca 240  
 ccatcaatgc ttcagtgagg aaaacgagta gattggtaac agttgaagaa ggtttccac 300  
 aacatggagt ctgtgcagaa atttgtgctt cggttgtaga agagagcttt tcgtacttgg 360  
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<210> 4250  
 <211> 357  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-047-Q1-E1-D6  
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 cgattcaggt accaccaatg ccgccgccgt agctccttct tctccggcgc gtcacacca 180  
 cgctcgatct tcttccgtca ctaatatgtc taacgtcaaa cgagctcaaa acgttgctgc 240  
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<210> 4251  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 ggatggacca gagttaaatg cttaagtgat gcaggcttgt tcttggnac gcctgatgta 180  
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aacaatttgc cacatttatg cactaaccat ctcaatccaa cctcttggtt cttccctcaa 300  
aacttgatca gtcagatgaa aactcctctt ttcattgtca atgcagcata tnatatttgg 360  
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<210> 4252  
<211> 390  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-047-Q1-E1-E11  
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agttcgtctt ttttgaagcc cttttgacac aaaagaccag aacaagttga agaaatatga 180  
atacaacctc gacacatttt gttccaccga gaagggttga agtttacgag cctctcaacc 240  
aaatcggtat gtgggaagaa agtttcaaga acaatggaga catgtatacg cctggctcta 300  
tcataatccc gactaacgaa aaaccagaca gcttgtcaga ggatacttct catggggaca 360  
gaangaactc ctcacaaggt ttgaccaaag 390

<210> 4253  
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taactatggt ccatggccgt ggtggcacag tcggaagagg aggtggctct actcatcttg 180  
ctatattgtc tcagccacca gatacagtta atggctctct tcgagtcacg gttcaggggtg 240  
aagtcattga gcaatcattt ggggaggcac acttatgctt tagaacactt caacgtttca 300  
cagcagctac tctagagcac ggaatgaacc ctccgatttc accaaaaccc gagtggcg 358

<210> 4254  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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aactcgtgtt gtatccaata gattacttta atattgatgg tggatttgat agatgaaagt   180
tacatgtcta aggagcatct anacacgggtt atagattgga taccatcaat gangaatctt   240
aggctaaaag acatccctag cttcagacgt accactaatc ctgacgacat aatgctcaat   300
ttcatcantic aagagggtgga gcantcnaaa cgcgccagtg atcattctca atacgttcga   360
tgatcgtgat catgatctta nacaancnat gcaatctatt ttattacctc cggtttatan   420
gattggganc ggctcccanc gccnagccag accagggaaa                               460
  
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 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4255

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tactccac cgcgggtgc tgcgactcct tgaagacgtt gaccaacact ggcatgggct   180
gtgcttgct catcctcact gctaacgtcc cgctgcctac tggcttcac aatcggntc   240
tggcgcttg nctacctga gccncaaaa tggcggtgt anctattcaa tgtnaantc   300
cggggacncc tctannagct ccaggtcagg ttccattttt gattgctcca ccacctcagg   360
tgtctgcttt tanccggga gcgtcnaagg cggcggggac aacaccaaca caggnacctg   420
c                                                                                   421
  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-047-Q1-E1-F6  
  
 <400> 4256  
  
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 aagttaagcg tttagattct tctaaaacgg tttggggatt gccaaaagct atgtcgcttg 180  
 aaacattcac tgaccctgca aagggtatta tctgtgaagg agaaccatgt gagtttggtg 240  
 ctcatgtgaa gattgcttca tccccgtcc ctgttgatga gaatctccct tttcacaaat 300  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-047-Q1-E1-F9  
  
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 ttactgggta aatgttggtg cattggctca ggttttataa agtttgggtg tcattctcag 180  
 tttcaagttt gatcaaaatg tggggctttg cgtcgaatgt cattggaagt atgggggttaa 240  
 agaagtcccc taaagattca gctcaagcat cctctcaatg ctcatgatgat gaggtttcaa 300  
 atattagcag ggatgaagag ggattagaat gtcccatatg ttgggaatct ttcaacattg 360  
 ttgagaatgt tccttatgtg ttaagggtgtg gtcatactcc ttgccaaaat 410

<210> 4258  
 <211> 397  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-047-Q1-E1-G12



<400> 4258

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tttcttcacc ggcgcaagct tctcttgagc gtgattcanc actggggttg cattttttcc 180

tggtgggtat tcttcaaatt gttcaaagct ccgacctttt cttccttaga atctgattac 240

tggnancttg aanctgggag agactccagt ttatatgggt tcaancatcg ttgagtcaan 300

cattggagtt gtgtagaaga aaggnttggg ttttccgtcg ccgtntaagt ggttttgggg 360

tttggttaga tttggtgtaa tcaggaaga taanaga 397

<210> 4259

<211> 364

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-G2

<400> 4259

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gtggcagtg aagtaacaag aagtctaaga agaataataa tccgagcaat cagaaaaccc 120

taggcgcggc atggggcgct gcttcttctc gttcttcttt ccggtcttct cctttctccg 180

atttcggaag ttacatggaa gtgaaaaata ggaaacttca gaaccaattt gagactgagg 240

cttctgctgc ttctcgtggt gtttcgggtt ctgagaaact tattttccaa ggggtttcaa 300

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<211> 359

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-047-Q1-E1-G6

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gactcgatct ttaatcgaag acgagtcaac ggaggtttcc gcgttannnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnat 180  
 agtggtagtt ttggagattt gttctcatgg cctgatcttg gtgggattgg ttcgagtgga 240  
 gtcgtgaagc tttgggatca tttagatatac gatggcgatg atcatgagaa tgttgtggca 300  
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<210> 4261  
 <211> 355  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-047-Q1-E1-G7

<400> 4261

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 cttatgggtca aaacggaagt cactttgaac caaagcctgt gccaccacca attccaaaga 180  
 aatgtgactg ggaaattgaa cctgctgagc tggatttttc aaatgctgca atgattggaa 240  
 agggttcatt tgggtgagatt gtgaaagcct attggagagg aacaccggta gctgtgaaac 300  
 gtattcttcc ttctctttca gatgatanac tggttatttc aggacttcag gcatg 355

<210> 4262  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-G9

<400> 4262

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 gaaaatgaag ccatcgctct catccaccac gctattcact ccggcggtac tctccttgac 180  
 acctccgata tctacggccc tgagaccaat gaagttctcc tcggaaaggc tctcaaggat 240  
 ggggtgagag aaaaagtgga acttgcgacc aaatttgga tcagttatgc agaggggaaa 300  
 agagaggtca gaggagatcc tgaatatgta agggctgctt gtgaggcaag tttaaagagg 360

ctagatattg cctgcatcga tctctattat cagcatccgt gtcgatactc gtg 413

<210> 4263  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 4263

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cgtgggttctt ctcttctcgc tcgtcttcga gtttcttgtg ttaccacaaa ccttgctagg 180  
aagaaaaacg aaacatgcaa tcattttcga cctatcaaag aagtaaataa ccaattaaca 240  
cacacaatac cacaggagaa gcttgaggat cttcaaatac atggaaaatt gggcagaaca 300  
aaaactacta ccttatctca aaccggtaga agattcatgg caaccacaag acttcttacc 360  
tggcgccaga ngaacgacga cgaattctac gacngggtaa aagaga 406

<210> 4264  
<211> 416  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-047-Q1-E1-H11  
  
<400> 4264

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acggngacgc gattttctga ttattagggg ttaagatctc gangttgagg agagcttgaa 180  
aagttgtttg tcaacatgga gcgcaagacn antgacttgg agcaaggatg ggannatatg 240  
cagactggga attacnaagc tganaacgga ttctggaagc gattgaatga gccagnantt 300  
gactctggag caatatatga tgctttatac gactatctac aacatgtgca cccangaaac 360  
ctcctcatga ttactcacag caagctttat gacaagtatc gggaangaat tgaggg 416

<210> 4265  
<211> 416  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-047-Q1-E1-D1

<400> 4265

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ctctcagccg cgtgactttt tttccaagta gcgtctgctg ttggcaaagt cctccactta 180  
caaagctttc ctctttcaat ctccgccgca acaatctctc cgccgttctc cgccgcacca 240  
tgtacataaa ccatatctcc caccgcgttc aacactatcg acgttaacgg ccaatcagaa 300  
ttaatccctc ttagtttctc caaatacgtc tcaggcatag atccgatcga ctcgaaatttc 360  
aaatgcgatt cgtcaagaat ctataacttc ccacagtctg attcccgtcg gattat 416

<210> 4266  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4266

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aaccgttgta tccattgct gtgcttatag atgagcttaa gaatgatgat attcagcttc 180  
gtttgaactc gatccgtcgc ttatctacta tagctcgtgc tcttgagag gagcgtacaa 240  
ggaaggagtt aatccctttt ttgagtgaga ataagtgcg atgacgatga ggtgcttctt 300  
gcaatggctg aggagttagg agtttttant ccgtttgttg gaggaattga gtttgcgcat 360  
gttcttcttc ctcttttga atctctatgt actgttgaag aagacntgtg tgagagaaaa 420  
aactgtggaa tcccttgtaa gaatgg 446

<210> 4267  
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<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 ctcaatcatt acctgccacg gggntccta cgcctctctc ttctcttctc cttcctctg 180  
 ctggggatca ctacctanct anagtgcatt ctccgcccc ncgctgttct ccagnttgct 240  
 tatggcnaat tccgctcccc ttctcncgc aanatagttt tcgnaagga gacctgcata 300  
 naattgggtg gttattggtg aanacgggat tgttgantcc gtgtgtgaac aagtatgtat 360  
 ttgggaacaa ttaacggatt tgggctgtca tacctcatag tagcaagctt tantcgaana 420  
 atttgcaaga tgggaaaana gantttctgg gctggttctt ttctgaatcc tggaaaaagc 480  
 tctcaatttc tctcaattaa ncaaat 506

<210> 4268  
 <211> 330  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-046-Q1-E1-H6  
  
 <400> 4268  
  
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 aagtctacgc taacgctagt gtgttttttc acacatgtgt tagttcttta aatatgagat 180  
 gagtaattgc ttttgagttc gattatgata aatatgttga ccgtcaacat aagaaacctt 240  
 aaaacgttgt cgtttcgttt ttattcatcc cggtttaatt cagtttgggc ttggcgtnna 300  
 aaaaaggann tcccggntga nanaataagg 330

<210> 4269  
 <211> 372  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-046-Q1-E1-H9

<400> 4269

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 cagctccatc tccagaaaca tgggtgcagg tggaagaatg ccggttccta cttcttccaa 180  
 gaaatcggaa accgacacca canagcgtgt gccgtgcgat aaaccgcctt tctcggtggg 240  
 agatctgaag aaagcaatcc cgcgcattg tttcaaacgc ncaatccctc nctctttctc 300  
 cnacettang cagtgcacatc attangncn catgcttcta acaangtcgt caccatttac 360  
 ttctctctnc tc 372

<210> 4270  
 <211> 357  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-047-Q1-E1-A1

<400> 4270

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 cnatctctct gtcaaaaagt ctttacttta aaacaaacag tgacatgaaa aatcaaagct 180  
 tcgatacaat ctcaggatgg atttgagtat cgcttaatga agttttgatc tttgggttta 240  
 agttctacaa cagagtattt cgaggattgt atatattgaa gggnttttgt tggttaaggg 300  
 ataatgatac cggaactggg gagaanaccg atgcatagag gggaacgaag attcntc 357

<210> 4271  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-A6

<400> 4271

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 tgaagccata accgcgatta atagctctag ctacgatctg gtactcatgg atgtgtgcat 180  
 gccggtgctc gatggtttta aagctacaag actgatccgt tcgtatgaag aaactgggaa 240  
 ctggaatgct gcaatagaag ccggagtaga tatatcgaca tcggagaatg aacaagtttg 300  
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<210> 4272  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-047-Q1-E1-B3

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 ttcctgaaga agaaaaagcc tgagggttaaa cactgcacct gggaatcaat ttccttaaatt 180  
 ctttactcaa aagatgagggc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnngatc cattagatcc tagtggtaac attacaatca aatgggatat 300  
 tatgtcctgg acggcagatg gctatgtggc tacggtaact atgaacaact tccaaatcta 360  
 ccggcacata caaaaccctg ggttggacat taggttggac atgggcaaag aaagaggt 418

<210> 4273  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-B4

<400> 4273  
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 gtgtcaaadc tgtttattct actccgacaa gagaacaatt ccaaaattgc ttgtccacaa 180  
 aacaattcaa ttctaccctc aaaaacccta taaatctcac cactcataca ctagattccc 240

gagttcacac cgacttttcc gagtcttcat ctccaaattc taagtttcct caacttgaat 300  
 ttcacaagct tgaagccgat tctcatcggt aagccaaaat ccgaatccga aataaaacaa 360  
 t 361

<210> 4274  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-047-Q1-E1-B8

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 cantcngatt ctgcattaac aacgaactca gcgactttga aaagtgatca acgacttggg 180  
 caacggttct gaaaagaagt ttttcaaagc ttttgctaag tcaatggacn aanatgggga 240  
 gagttaaagt gaagactggc tcagctgggtg tgatcaggac acggtgttct gtcgctggaa 300  
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<210> 4275  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-047-Q1-E1-C1

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 agattcaaag gattccgatt cgatcttatt gtccgatctc ggtgtttctc gtttctctac 180  
 tgtgattatc catgtcctgc ttttgggtgg tatgcaagcg gtcgcccca agcctcgtct 240  
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 tgggtttact actcgatctg atattggtcn tgctcgtgct gtcgccggat cttcctgac 360  
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 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4276

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gccgtcgtca tcctaatacg cgagcttgaa aagatccgtg ctctctcttc cgccgctgtg  180
acagaggaaa tcagcctcgc tactcagctt aaccgtgctt catccgatca aaccaccgca  240
tctgagcaaa aggaagtcac tgatatcccg caggaagtta gcggcggcga tgatggcgct  300
aagttggagg atctggtgaa tttcctctac tttggttcac tcttcgacgt caagtcacag  360
aacgagttca cttcgataat gttgaccaag gactcatgan gagaattgct gct          413
  
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<210> 4277  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-047-Q1-E1-C11  
  
 <400> 4277

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gattgtggac gtcaagttgt gagtttaatc ggagatttat tccggcgatt acacggctct  180
aagttggtga agagcttgaa tctctgtagt atcaacgaga gtaaagattc gatttcaatg  240
gagatcaata aatcattcac tgacatggaa ggtgttcagc tttccagcaa agtcggttgc  300
gaagaatcca agaatctttg gatactctga gctttatata ggaactaatg gtttcagcga  360
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 <211> 353  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C5

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tcttgcttca gtcttcact tgtctgatta gttctccaag ttctatcatc aatccttcta 180  
aagtcaaaca ggtttcgtcg aagcccaggg catttggtga tgaaggtttt ttgacggact 240  
tggaatgtga tcatctaata tctcttgcca aagagaatct gcagagatct gcggttgctg 300  
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<210> 4279

<211> 489

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-046-Q1-E1-H2

<400> 4279

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cttaaggnta tcttgaang aantggtgcn cagcctatan atgagtttat gtttctgcag 180  
nagtttgtcc atacgagatc tgatttaact tcaaanacac ttgtcatggc tcaccgagtg 240  
cagcttgaag ttcttggtgt tataaacact ggnatccaag cattcttgca cccaaacatc 300  
aatctctctc agtcatcact catcgagatc tttgtgtcaa ggagatgcat aaacataact 360  
tgccaaaacg aactcccggc tgatggttgt ccctgtgaga tttcgcgtaa ttaggaaagg 420  
cttctgcaac ctgtgcatnt ttgtganatg ttancnaagt tttgantttt gcactccaac 480  
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<210> 4280

<211> 354

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C6

<400> 4280

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ctgaggcttg ttatcctttg tctcttcttg cattaccgta taacaaaccc agtgccaaat 120  
gcctttgctc tatggctggg ctctgtgata tgtgagatct ggtttgccctt atcctggatt 180  
ttggatcagt ttcccaagtg gtttcctgtg aaccgtgaaa cctacctcga caggcttgct 240  
ttaagatatg atcgtgaagg tgagccatca cagtttagctg ctgttgacat tttcgtgagt 300  
actgttgacc ccttgaagga gccaccctt gtgacagcca acacagtgct ctct 354

<210> 4281

<211> 355

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C7

<400> 4281

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ggttgcaaag tcgatgatga agcagttagg ccataccatg gatattgcta ataatggagt 120  
tgaagccata accgcgatta atagctctag ctacgatctg gtactcatgg atgtgtgcat 180  
gccggtgctc gatgggttaa aagctacaag actgatccgt tcgtatgaag aaactgggaa 240  
ctggaatgct gcaatagaag ccggagtaga tatatcgaca tcggagaatg aacaagtttg 300  
tatgcgtccc acaaaccggc tgcctataat cgcgatgacg gcaaatactt tagca 355

<210> 4282

<211> 359

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C8

<400> 4282

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tttgcaaagt ggttttgatg ttgtagcacc agatcagatt gcgcaagtgt gtcaacaggg 120  
ctcagcagtt gacatgagca atgatgtttc agtgacgggt atccagatta agagtcgcca 180  
ggcacaaccc tcagggtata ccaatgacta tatagcgcag ggaaatggtc caagaaggct 240

gcgtctgcaa agtaacttta atggcattaa cacgaagaat cctgagcttc aagctataaa 300  
gagagaggct gaggacacgg ttggagaaag tataaagaaa aaggtgtgga aagctaattg 359

<210> 4283  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-045-Q1-E1-F10  
  
<400> 4283

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agaatctctg ttcttttttt caccagaatc tctctgttta aaataatagg tgatgatgat 120  
ggatgagttt atggatctta gaccagttaa gtacacagag cacaagactg ttatcagaaa 180  
gtacactaaa aagtcgtcta tggagaggaa gaccagtgtt cgtgactcgg ccaggttggg 240  
tcgggtctca atgacggatc gtgacgccac tgattcatca agcgacgagg aagagtttct 300  
gttccctcga agacgtgtca agagattgat taacgaagat caagagtcga gcctagcaag 360  
ctcttccacc ggcgacgtct ctgcttctcc gacgaaggac cggnaaagaa tcaacggt 418

<210> 4284  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-045-Q1-E1-F2  
  
<400> 4284

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gcttgaggag gaagaggaat ggtcggcgtg atgaacagat tgaggaatct ggacgcttac 180  
cctaaaatca atgaagattt ctacaggcgt actctttctg gtgggtgttat caccctcgcc 240  
tcttctattg tcatgctaatt tctcttcttc tccgagcttc agctgtacat tcacccggtt 300  
actgaagact cagcttcgtg ttgatacatc aagaggagag aagctacggg attaattttg 360  
atgttacatt ccctgcgctt caatgttcga ttattaagtc ctgattccat gggatatcag 420  
tggggagaag caccttgatg tgcgacatga 450

<210> 4285  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-F4

<400> 4285

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aactttcctg ggtccaatat ttctggacaa atgggacgtg gaatgccatc tgataagact 180
tcagggggat gggttcctcc tcgagggtgt ggacctcctg gttaaagctcc ttctagggga 240
gagcaaaatg actattccca gaactttgtg gatactggaa tgcggcccca gaatttcatt 300
cgggagctgg agcttaccaa tgtggaagac taccccaagc ttagaagagc tcatacagaa 360
gaaggatgag attgtatcta attctgcttc tgcaccaatg tatctgaaag gcgacttgca 420
tgaagttgag ttatctcccg agttattttg gaacaaaagt ttgatgttat tcttggtgac 480
ccancatggg 490
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<210> 4286  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-F5

<400> 4286

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catcaggagg tgatccttgt ggccaaaact ggaaaggcat aacttgctct ggctctcgag 120
ttacacaaat aaagttacca agtcttgac tttctggatc acttggttc atgcttgata 180
aattgacttc tgttactgag tttgatatga gcaacaataa ccttgagggc gatttgcctt 240
atcagcttcc tccaaacttg gagcgattga atcttgctaa taaccagttc actggatctg 300
ctcaatattc catttctatg atggctcctc ttaagtacct caaccttgct cacaaccagt 360
tgaagcagct agctattgac ttcacaaaac tcacctctct ctctatattg gacctctctt 420
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ccaatgcttt tataggggtc tctcccaaac acttgtagct ctcttacgag tgcaaaatca 480

<210> 4287

<211> 442

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-F6

<400> 4287

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cttttagcagt tcttgtcctt ctctttgtcg tcgtttcgag tagccaaaaa gtctgcaatc 120  
cagaatgcaa ggccaaagaa cccttccact gcgataatac tcatgcattc aaccgtagtg 180  
gatttcccaa aaatttcact tttggtgcag ctacttcggc ttatcaaatt gaagggtgcag 240  
cacatagagc acttaatgga tgggactatt tcacgcatag atatccagaa aaagtaccgg 300  
atcgtagttc agcagatctt gcttgtgatt cgtatgatct ttataaggga tgatgtcaaa 360  
ctgctaaaaa gaatgaatgt tcaagcatac cgtctcctcg atagcatggt caagggtctt 420  
accaaaggga agactgactg gg 442

<210> 4288

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-045-Q1-E1-F9

<400> 4288

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cgggtcaatc ccaaaggac tattcggatt acccaaatta actcaagtgg agtccaaga 120  
taattatctc tccggagagt taccagtcgc cggaggtgtc tctgttaatc ttggtcagat 180  
cagtttatca aacaaccagc tctcaggtcc attacctccg gcgatcggga acttcaccgg 240  
cgttcagaaa cttcttcttg atggaaacaa gttccaaggt cctattcctt caagaggtag 300  
ggaagcttca gcagctctcg aagattgatt tcagccacaa cttgttctcc ggtcgaatcg 360  
cgccggagat tagtcgttgc aagctcttaa cgtttgttga tctgagcana aac 413

<210> 4289  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-G10

<400> 4289

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 ttcgtttctca ttaacgccga tgagagtgcc agaatacgat cagtacaaga actgagtggg 180  
 caaacatgtc aaatctgtgg agatgaaatc gaattaacgg ttagcagtga gctctttgtt 240  
 gcttgcaacg aatgcgcatt cccggtttgt agaccatgct atgagtatga acgtagagaa 300  
 ggaaatcaag cttgtcctca gtgcaaaact cgatacaaaa ggattaaagg tagtccacgg 360  
 ggttgatgga gatgatgaan gaaagaaaga agacattgat gatcttgagt atgaagttt 419

<210> 4290  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-G11

<400> 4290

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn gatgaagggt catatattgg agtaaacata gggactgatc tttctgatat 240  
 gccacatcca acacaagttg ttgctctact aaaagctcaa gaaatccgac atattcgatt 300  
 atacaacgct gatcccggtg tgttgattgc tctagcaaac actggatatca aagttataat 360  
 ctccattcct aatgaccagc ttcttggtat angtcaatcc aattcaaccc 410

<210> 4291  
 <211> 480  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-045-Q1-E1-G2

<400> 4291

aangttaccc gccggtacgg tgcaaaattc ccgggacgac ccacgcgtcc gaccgtgcga 60  
tancctaaat ttcaacgttg attccacttt gtcaagtttg tatctttccc actttgattc 120  
cgatttggtta aagatttgca gattaaaagt tttctttttg aagaaatcca tgagtgccca 180  
aatggaagaa ccagagactc tcggnaaaag aaaagaatct gaaagttcaa aacttcgttc 240  
tgatgaaact ccgacgccag aaccaagaac gaagcgtaga agtcttaaac gtgcttgtgt 300  
acatgaagtt gctgttccta atgattacac accaacgana gaagagacga ttcattgggac 360  
gcttgataat cctgtcttca atggagacat ggccaagact tatcctttta agcttgaccc 420  
ttttcaaagg tgtatctgta gcttgtttag agagaaaaga atccattttg ggatctgcnc 480

<210> 4292

<211> 485

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-045-Q1-E1-G3

<400> 4292

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gaatttgccc ctcaagtttt attttaattg ctaaaatggc tggaacccta gttaactccg 180  
ccgggagatt ctacccggga aattgtattc ttcctcaaca gagaacagcc agattctaca 240  
gcggaaccgc gagatttccc accggagctc cgtcgtttta ggcttcagct cagacgctta 300  
acgccgagcc agctgtaacg gaatccgttc gtcggagagt ttctagcctc tacgaattac 360  
tgaaagtgaa tgaaacggcg tccttgacgg agatcaagac ggcgtacgga gcttagctaa 420  
agtatatcat ccagatgcgt cggaatcgga cggtcgagat tttatggaga ttcacaaagc 480  
ttacg 485

<210> 4293



<211> 493  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-045-Q1-E1-G4

<400> 4293

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tgccatgtca gctgcttgcg cggtcgagat gatccacaca agctctctca ttcattgacga 180  
tcttcctgctgc atggacaatg ccgacctccg tagaggcaag cccaccaatc acaagggtatt 240  
tggagaagac atggcggttt tggccgggtga tgcgcttctt gctttggcgt ttgagcacat 300  
gacggttgtg tcgagtgggt tggtcgcttc cgagaggatg atccgggcag tggttgagct 360  
ggcaagggcc atagggacaa aagggttagt ggcaaggcaa gtggttgacc taagcagcga 420  
aagattgaat ccacacgacg ttggattgga gcgtctanag ttcattccacc tccacaaaac 480  
ggcggcgcttg ttg 493

<210> 4294  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-045-Q1-E1-G6

<400> 4294

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tggccgcat ggtgaagtac tctcaagagc ccgataatat caccaaatct tgcaaggcga 120  
gaggagccga tctcagggtc cacttcaaga aactagaga aacagcgac gccataagga 180  
agctaccatt gaacaaggcc aaaagggtact tggagatgt catagctcac aagcaagcta 240  
tccccttcac ccgtttctgt cgtggtgttg gtcgtaccgc tcaggcaaag aacaggcatt 300  
cgaacggaca aggtcgctgg cctgctaaat ctgctcaatt cgttcttgat cttctcaaga 360  
atgctgagag caatgctgag gtcaaagggt tggatgtcga tgcccttttc atttctcaca 420  
tccaagtga ccaagcaagc aaaacagagg agaaggacat atcgtgctca tggagaatc 480

<210> 4295  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-G9

<400> 4295

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 tgacgatgct cgctcttctc catcacttct tcttagggag agaggtcgat tcaactccag 180  
 ccgttacttt gttgaggaag ttatcactgg ttacgatgag actgatcttc atagatcctg 240  
 ggttaaggct gttgctacga ggagtccaca agagaggaac acgaggttag agaatatgtg 300  
 ttgggaggat ctggaatctt gctcgtcaaa agaagcagca tgaggaaaaa gaagcacaga 360  
 ggctggctaa gcgcangctt gaacgtgaga aaggctgcag agaaggcaac ag 412

<210> 4296  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-H1

<400> 4296

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 attctgcagg cgtttgctca aatgccagag ttaactgttt ggtatgggtcc tgattcttac 180  
 atgggagcga atattgtaaa gttattccag cagatgacat tgatgactaa tgaagaaatc 240  
 gccaatattc accctaaaca cagcttagat tccattaaat cattgcttcc ccgtcttcac 300  
 tatttccagg aaggaacctg cattgtacat catctattcg gtcacgaggt agtggagaga 360  
 ataaagtaca tgtactgtga cgcctttctt acagcacatc ttgagggtcc aagggtgaaat 420  
 gtttcactag caatggaagc aaaagaaaag agagattggg tgttgttggg ttaacacaan 480

<210> 4297

<211> 490  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-045-Q1-E1-F1

<400> 4297

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ttttggttga ttcgattaag ctaacatgt cttacaaacc aagcggaag actgagggtc 180  
gccggaacag gtataaagta tctgtggacg ccgatgaagg tcgccggaga cgggaggata 240  
acatggtgga gatccggaag aacaagagag aggagaactt gcagaagaag cggcgtgaag 300  
gttttaatcc ttccatggcg tcacagccag ggcaggattt ctctcgtct ctcctacgg 360  
aaacgagatt ggagaatata caacaagatg attgctggag taatgtcaga ggatagaaga 420  
cttacaattg gaggcgacgg ctagcttcan gagattgctt tcaattgagc gaaatcctcc 480  
atcaatgaag 490

<210> 4298  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-045-Q1-E1-C5

<400> 4298

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taatcccctg tcggctccca gatgcagacc actcagcctc tccttccccg gatcctcaac 120  
cttctcgatc cgccctctta gcagacgcgc aaccgccttg acgaccgcgc cctcctacac 180  
cccagacccg gcgactgagc gcgtgatttc gatagcgtcg tacgcgctgc cgttcttcaa 240  
ttctctgcag tacggggcgt tcctgttcgc gcagtacca aggctgggat tgctgttcga 300  
gccaatcttc ccaatcctga acctgtacag atcgggtcgt acgccaagct tcgtgggatt 360  
cttcggggct gttacctggg gaattggtga nggaacacga agttttcagt aggtaacgtt 420  
ganggttcaa cggcgaangc aaggc 445

<210> 4299  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-C9

<400> 4299

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gtgataaagt gaaattcggc tatgataaag ataatatctt attacaagat gttacactta 180  
atattgatat ggattcacgt gttggtgtgt tggggggccaa tgggggttgg aaatctacat 240  
tacttcatct tttgattggc aagattcaac cattagaagg tacagtata cgaaattcta 300  
gtgcacggat tgcaactttt gcacaacatc atatggaaca attaaattta caacaatctg 360  
cccttgatct cttcattgaa ctctttccta aaaatcaacc tcaacttctg gcgt 414

<210> 4300  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-D10

<400> 4300

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caccatcatc acctttctcc ttcacttgcc tcagatctgg ctgcgatttc aaatcttcct 180  
tagtttctct cgcacgctc ggccgttgac ggtcccgctc tttccgtgga tctgattctg 240  
gccccggatt ctctcgccgc gatctgaggt caaacatggc ggctgctaac gcgccccatca 300  
ttatgaagga ggtcctaacg cttccgagcg ttgggatcgg tcaacagttc atcaccttta 360  
caaagtgtac tatggagtcc gataagtaca taatgtgtac gagagacggc accg 414

<210> 4301  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-D11

<400> 4301

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cgtcggagcc ggaaaccgga gcccaaactt gacatatact ccactttcgt agtccactcc 180  
gactctgatt ctgatcaagg tcgagatcga gacaaacgta aagccaaacc tgaggaaaga 240  
cgaaaatgtc gatttatacg ctacaatggc ctacaaaggc gatagtgacg gagaaggaga 300  
ggaagatgat gatgacgatt ctatgcttcc tcctcttctc aagcgtcttc ccaaggattt 360  
cggaggcggg cgcgtcgtc gattacgacg acgacgaacg gtgatgaatc ctggaga 417

<210> 4302

<211> 410

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-045-Q1-E1-D12

<400> 4302

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caatggcttc tttggaaaat ccagcaatcg attcttcaag cgaatttgag agttcttctg 120  
aagagatctc ttcttctaaa gaaagcaaac ccaaagaagc tcccgtcact gttccgtcaa 180  
caaaaacctt aaactctcct tccgccgccg tggcagtttc tgatgactca gagtcagaga 240  
agcagtcatt cgtcttaacc aggcggaaga agaaagaagg tgctgctgaa tcaccggcag 300  
tgaagtcagg gaagaaagaa ggtgctgctg aatcaccggc agtgaagtca ggaataacg 360  
aaggtgctac tgaatcaccg gcggtgaagt caggggaaag aagccaanct 410

<210> 4303

<211> 491

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-045-Q1-E1-D4

<400> 4303

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 cctcgtaaac atcgctgtct ctaaagatgg cctctctctc aggcctatac tcttcttctc 120  
 catctctcaa acctgccaaa aaccattcct ttaaagcatt gccggcgcaa tctcgagatt 180  
 ccttctcttt cccacatacc tccaaacca ccaatctacc gttgactctc tctcggctc 240  
 gttctgtggc acgcgacatt tctcatgcgg attcgaagaa agagcttctt aaggatccgg 300  
 atgcgttggt gaagcgatac ctcgattggt tttatcaagc aagaaagagc ttgggttgta 360  
 tctgggatat taatcgggtc ggatttaccg atgagtttgt ggctgaaatg gagccaaggt 420  
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 <212> DNA  
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 nnnnnnnnnn nnnnnngata atgggagcct atgaaacaga aaaaccaact aaagatgcgg 180  
 cggctctaga gacacagtcg ccggaagatt tcgatcaacc atctccgctt cgtaaaatca 240  
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 ttactccgta cgttcaactc ctcggaatcc ctcacaaatg gtcattctctc atttggtctt 360  
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<210> 4305  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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<400> 4305

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gttttggtcg agttcattat cgatctaggt cgtcactctg agacagtcga tgaattcgat 180  
aagaatctta aggaagcagg tgcagagatg ccggattact tcgtccggtc gttgttaact 240  
acaatccacg gtatttatcc tccgaagcct aagtcggaga agaagaaaga ggaaggatgat 300  
gatcagaaat tcaaaggctt agcgattaag gataactaagg gataaagtta aggagctcga 360  
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<210> 4306

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-E1

<400> 4306

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gttagtgaag tatctgcact tgatgtaggc ataacagctt caaacctttg gagctctgtt 180  
ttgacgcaac cccatgagtt tgcacaatcg tgcatcacct cacagtggag ttctcctcag 240  
caatgtcatc gtgatgcaaa tgaggatgct aagaaatctg actggctaaa taactcctac 300  
tcctgtgtca aatgtagcaa aagactcaac actgaacgac caaatgggtt cccagtcg 360  
aagcagaaga agcctgagac aaccgcgtaa ttatagatta tttgggaatt gatctgatga 420

<210> 4307

<211> 493

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-045-Q1-E1-E4

<400> 4307

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cgataactcaa cttactagcg ttactctggt ccataccaat aacggcggtca ggtatatggc 180  
tagcttcaaaa gccagacaac gagtgtgtca atctcctccg ttggcccgtt gtcgtcctcg 240  
gcgttctcat cctcgctcgtc tccgccacag gcttcatcgg cgectacaag tacaaggaaa 300  
ctctactggc ggtttacttg tgctgtatgg cgatattgat cggacttttg ctggtggttc 360  
ttatatttgc attcgctcgtg acccgggccc gatggatcgt atcggttcc gggtanaggt 420  
tataaagagt ataggcttga anggttctcg aattggctta aggagaacgt tgtggattcc 480  
aaagaactgg gga 493

<210> 4308  
<211> 479  
<212> DNA  
<213> Arabidopsis thaliana  
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<223> Clone ID: LIB22-045-Q1-E1-E5  
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aatttcaatg tggataatgt tcgtgtttcc aagcttttgg gaggaggctt gcacaattct 180  
tgcatagtcc gtggtatggt cttgaaaagt gatgctgttg gtagcattaa gcgaatggag 240  
aaagcgaagg ttgctgtatt tgctgggtggc gttgatacca ctgcaacaga gaccaaagga 300  
actgtcctca ttcatagtgc tgagcagcta gagaactatg caaagacaga ggaagctaaa 360  
gttgaggagt tgattaaagc agttgcggaa tcaggagcca aagtcattgt taatggagga 420  
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<210> 4309  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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 gaggcacaca cgtctagaaa gttgatatca atcaaggaaa aagaagggtca agatattagt 240  
 catttgctca aagatgggtga atttgatgac ccttcgttgt acatgtattt cacactcaat 300  
 gatctcaaac taggaaccaa attgctgatt tacttctaca aaaacgatct tcaaaagctt 360  
 cctccacttc tcacaagaca acaaggccga tctcattcct ttcactaagt caaagcttga 420  
 cttccttctc gaccact 437

<210> 4310  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-E8

<400> 4310

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 agatcaaatc aggaaagact aagattatag gtgttaagag gactctagtg ttttatacag 180  
 gtcgtgctcc taaagggaca cgaacttggt ggattatgca tgagtatcgt gctactgaga 240  
 aggatcttga tggaaacaaag tctggccaga atccgtttgt tgtttgtaag ttgtttaaga 300  
 agcaagatat tgtgaacgga gctgctgaac cagaagagtc aaagtcatgt gaagttgaac 360  
 cagcggatc gtctccaact gttgtggacg aggttgaaat gtctgaggta tctcctgttt 420  
 tccctaaaac agaagagac 439

<210> 4311  
 <211> 405  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-E9

<400> 4311

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cgccattaac gatgcggttc acaagcttca gctctatatg ctcgaaaata ccaactgatca 180  
gaaccagctc ttcgcggcga ggaagttaat gtctcgatca gattacgaag atgtcgtcac 240  
tgaacgagca atcgctaagc tctgtggta tactctttgc cagagatttc tcccttccga 300  
tgtttctaag aagaggggaag tatcggattt cgttgaagga ccataagggt tacgatttac 360  
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<210> 4312  
<211> 507  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4312

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gtgacgattc aagttggaga attcgcaaac tttgttggct ctacttttg gaatttccag 180  
gatgaattgc tcggattggc tagtgaccct gaaagcgatc caatctttag aaaccataat 240  
ctcgacatgg atgttctcta ccgctccggt gagaccacgc aggggggttg tacatacact 300  
cctcgtttgg tttcagtcaa cttaaaaggg gcactangga ccatgaagct cacgcggtac 360  
actttacaac gaaaggttct tcatcaagat naagattcct tcagcaancc tggtttgggc 420  
gatgttgata ctcaaggat tctggaanct ccganaagag gaaccttggt tctgcaana 480  
gtttggtacg aagggaagaa caatgtt 507

<210> 4313  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-044-Q1-E1-H3

<400> 4313

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agctcaagag attaggaaag gtgctgcttc tgttgatggg gttgaagcca tactctggca 180  
 ggtacccgaa acgctccaag aagatgtgct ctctaaaatg agtgcaccac caaagagtga 240  
 tgctcctatt atcaccccaa acgagctcgc tgaggctgat ggatttatct tcggcttccc 300  
 aacgagggtt ggtatgatgg ctgctcagtt caaggcattt ttagatgcca ccggcggcct 360  
 ttggaggact cagcaactcg ccggtaaaac cagccggaat cttctacagc acanggtccc 420  
 aaggtggtgg tcaagaaacc accgcattaa ctgccantac tcaactgggt catcacngga 480  
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<210> 4314  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 4314

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 tgactctttt gagcagtttg gtgatagtga aaggagaaag cccttacaag ttttacactt 180  
 ggactgtgac ttatggcatt atctctctc ttggtgttcc tcaacagggt attctcatca 240  
 atgggtcagtt tcctgggtcca aaacttgaag ttgtgaccaa cgacaacatc atcctcaacc 300  
 tcatcaacaa acttgaccag cctttcctct tgacctggaa tgggattaag cagaggaaga 360  
 actcatggca agagggtggt ttgggaacaa actgtccgat tgaaccanac tcaaacttca 420  
 cttacaaatt ccaaaccaaa agatcagatn ggga 454

<210> 4315  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-044-Q1-E1-H9  
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atctgctggt cctttgttaa ggaaagatca gaagccccgg aaacgttcag cttcagattt 120  
gctaagattg atcccatccc tccaggtagt ggaagggtgtt gctagtccca ataagagaag 180  
aaaaacctct gaactggtac agagtgaatt agtgaagagt tggagccctg catcacagac 240  
cttatccact gccgtgtcaa catcaacaaa aactatagga tgcagctatg ggaatctcat 300  
agctgaagca aacaagggga atgcaccttc aagcgttttt gtttatgctc ctctccatgt 360  
ggccaagcat tcttcgttgg tccataaagc atgccaaact aactagtcag atggaggna 419

<210> 4316  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-045-Q1-E1-A10

<400> 4316  
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ttggctcttg gcactaggaa gatggctcag aagaatgctc tggttaggaa gctaccagc 180  
gtggagactc ttggatgcac caccgtgata tgctctgaca aaactggaac tcttacaacc 240  
aatcagatgg ctgtttcaaa gctcgttgct atgggttcga ggatcggaac tcttcgatct 300  
ttcaatgttg aggggacctc gtttgatcct cgagatggaa agattgaaga ttggccaacg 360  
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<210> 4317  
<211> 489  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-045-Q1-E1-A3

<400> 4317  
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cagaacaaaa aaagaagaaa cctttttgat tctctttgcg atttctttgt tcaatctctt 180

ctcagattgt gtgaatcggg tttaaactcg gggttttaggg tctctgtttt caaaagggt 240  
 ccaaaaagt tggagcttta ctgtagaaag atttgatttt tcgttgacct actccgagat 300  
 tttcggatac aaatcacggg tttaggggtt ttgttggaat ggaagaggat tatcaacagc 360  
 cgaggtttac gantgggtag gcaatcatca atggcgccgg agaagattcc ggagccgtcg 420  
 gttcactcan gaagaagang tgtttgaagg atggagaaga aatcgatggg ggngtgagac 480  
 taaaggtat 489

<210> 4318  
 <211> 370  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-A5

<400> 4318

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 aactactttt ggcattgcag atttcagaga gctgtgattt gtgctatctt aaaaacggac 180  
 aagttctatg ttgtggcgga tgagatgagg gatgctatct ggggtgatga attttctgaa 240  
 tgctgtctc tggccacggg cagatcagca ggctcgttct gcctcaagat tctggtggcc 300  
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 catgggcgtc 370

<210> 4319  
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 <212> DNA  
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<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-A8

<400> 4319

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 acgacgacgc cgcagtcaaa atcaagtgtg tcccaccgac cgccgttggg aagagaagac 180

tgggtggagtg aggaagcgcac ggcgacgctg gtagaagcct ggggcaatcg ttacgtcaag 240  
 ctgaaccacg gaaatctccg gcagaatgac tggaaagacg tcgccgacgc cgtaaactct 300  
 agacacggtg ataacagccg taagaagacc gacttacagt gtaagaaccg ggtcgatact 360  
 ttgaagaaga agtacanaac angagaaagc taaactctcg ccgtcgactt ggcgtttcta 420  
 taaccgcctc gatgttctaa t 441

<210> 4320  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-B2  
 <400> 4320

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 tctagtacca tgcttggtca ctatgacaaa gggactccag cagttgctaa tgagattaaa 180  
 gaagctctcg aaggaaatga tgttgaagct aaagttgatg ccatgaagaa ggcaattatg 240  
 cttttgctga atggtgaaac cattcctcag cttttcatta ccattataaan atatgtgctg 300  
 ctttctgaag accacaccat ccaaaagctt ctgttgctgg tacctggagc tgattgaaaa 360  
 gacagattcc aaggggggaaa ggtgttgctt gaaaagattt tgataatgcc aagaatcctc 420  
 cgnaat 426

<210> 4321  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-B7  
 <400> 4321

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 aggatttggg taaaacgctg cgtattanca ctgtcggtag aaaacaagag aaggaggag 180

aagaggagaa gtcggtgaag tttaaggtga gagcagttgc gacggtgagg aacaanaaca 240  
aagaggattt taaagaaact ttggttaagc atttggnctgc ttttactgat aaaattggta 300  
naaacgttgt cttgngnctt atgagtaccc aaagttgatc caaatacgaa tgatccaaan 360  
aaagagtaaa gctgcaattt tgaaaagatt gggcaaagaa atcaaattca aaagggcgga 420  
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<210> 4322  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-045-Q1-E1-B8  
<400> 4322

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
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ctctagcttt tgctttcgtt tccgctgaga gaagaggaaa atctctgagg ttaagtacag 360  
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atctgatcaa ntaggttat 439

<210> 4323  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 4323

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnca ggatttgttt tttccgtttg aggtaaagca gctttgcagt 240  
 taaagaaacc ttgagtatcc aatgtccccg gaagaggagc tacagagcaa tgtatcgggtg 300  
 gctagtctct cactactag caattgcatc tccaggaaca ctctaggagg acttaaagaa 360  
 gcataactac ttgggtctct ctgattgttc ctccgttggg aaagctctaa tctctctccc 420  
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 cct 483

<210> 4324  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-C10

<400> 4324

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 gagatagata tctatagcat ctatacctca gtttgcatag gagattctgc gcgatcgtct 180  
 tactttgatt cagcgcaatt caaaacaaat tctcgcatta gtcceaagag gatgccaccg 240  
 aggctcatgg gtggatatga tccatgctta gatgattacg cgagagtatt ttacaacaga 300  
 gcagatgttc agaagtctct tcatgagagt gatggagtta atctcaagaa ctggagcatt 360  
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<210> 4325  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-C12

<400> 4325

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 tgctgaagaa gatgctttga agtgaacac cgattgcgtt tactttctcg cttctccttt 180  
 aacctgcaag aagggacctg aatgcgagta tcgccacagt gagtatgcgc gtatgaaccc 240



gagggattgc tattattggt tgaatggaaa ctgtttgaat cccaaatgtg gatttcggca 300  
 tcctcctttg gagggattgt tgggaaatca aggaggtgct cctgctgttt ctgtacagcc 360  
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<210> 4326  
 <211> 457  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-045-Q1-E1-C2  
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 tcttccgtca ctacatctat ggccgctgag tcttctaacc ctgcgaccgt cgaagagatc 180  
 ttcaaggatt ttagcggtcg tcgctccggt tttcttcgag ctctctccgt agatgttgac 240  
 aagttctact ctttatgcga tccggaaatg gagaatctgt gtttgtacgg acacccgaat 300  
 gggacatggg gaagtgaatc ctccaactga ggaagtgcct ccggagctac ctgagccaac 360  
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<210> 4327  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-044-Q1-E1-H2  
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 gagtcatact caaacgttca tacttggtctg agcagtgtgc ttacaaacta catgacatgt 180  
 ttagaaagta ttagtgatgt ctccgtcaac tctaagcaaa tagtcaagcc acaactcgag 240  
 gacttgggtt ctagggcaag agtggctcta accatctttg tctccgtctt gctgcccaga 300

gacgatctca aaatgatcat ttccaatccg cttcccgtcg tggctaactg ctcttgacag 360  
aaagctttta gaatcctctc ccaagacact taaagggtgac cgcgaaacgtt gtggtggcaa 420  
aaagacggna accgggaaag ttcaaaacag ttgaatgaag gaantggcgg gcaacaccgg 480  
ngaacagcaa 490

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gcataccaat ggctgaaacc tggcactttt atttgggtga accccttact gtagtggaa 180  
tctacgatga tgggaagttg aaattcacat gtcttgggtcc tgacttggtt gaaggtgatc 240  
agaagcctca gtacacggtc cctccaaacg tctgggttgg ttcgtttcct acaaaggatg 300  
ttcatttttc tcaagacggg gctctgctta aagctgaggg tagagactct gagaaccatt 360  
tctctcttgt tggctgcacc tgcgctcctg ctttccagtt cgaggacttt gagctcgca 420  
aacgctctga tctcttatca aggtttccgc aacacgaatc actcatcaca atgctatcct 480  
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<210> 4329  
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<212> DNA  
<213> Arabidopsis thaliana  
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<400> 4329

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tagacatgac ggtatacacg attcgccgcg aggtagatcg gtgcttgata cgccctctttc 180

ttctgctaga aactcctttg agcctcatcc tatgatggct gaagcttggg aggctttaag 240  
aaggatcaatg gtcttcttcc gtggatcaacc tgttgggtact cttgccgcgg ttgataatac 300  
taccgatgaa gtcttgaact atgatcaggt gtttgtgagg gattttgtac cgagtgcgtt 360  
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<210> 4330  
<211> 423  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-043-Q1-E1-H8  
<400> 4330

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aaaccataac cacaatcatc atcttcctta ttcacttatt catggtctca acaacaatca 180  
tccatcttct ggtttcatta accaagatgg atcgtccagt ttcgattttg gagagctaga 240  
agaagcaatt gttctgcaag gtgtcaagta taggaacgag gaagccaagc cacctttatt 300  
aggaggagga ggaggagcta cgactctgga gatgttcctt tcgtgggcca atcagaactc 360  
accaaactct tcctactgag aagttccaaa gtcaggagga gagagcaacg attcnagggt 420  
ttg 423

<210> 4331  
<211> 502  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-044-Q1-E1-A1  
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caacattctt ccttttcgtt gaagggaaaag ctgctactcc gagtatttct aaagtgctcg 180  
agtctattcc tgggtgtaaa gtaatatata ggacgaaaga gcttgaggag aagcaagcga 240

agagccggat ttggaatgag acctggcttt cgtctttctt ttataagccc tgcaattatg 300  
 agttatttgt caaacaatct ctcaacatgg aaatggctat tgtcatggct agggatgcgg 360  
 gcatggattg ggatacttca tcttgacact gatgagctga tataccaaca aggtgctccg 420  
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 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gagtttcggt tcttcctctc ctgcgatatc aattcgccgg tcacttttcg tatcgagaag 180  
 cttgatggaa acctccccgt caagaaatcg tctgattcgg gagttgtctc catcgagaa 240  
 gagaaaaaac cagagcttta cattgagtgt gcattgtaca ttgatggagc tcccttttgg 300  
 ccttcccatg aagaacaaga ttgaaaacta cagggaacaa caatactggc tgggnaacga 360  
 actcatcaac tctcaagttg cnaaataacc ggggacnttg actggcccaa ntcaacaaac 420  
 ttggcgaatt acagttangg ggatgtttcc ttgtg 455

<210> 4333  
 <211> 504  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-044-Q1-E1-A3  
 <400> 4333

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 ctaaaacata aacgacattg atgtttcttc atcagatcct ttaattcttc tccaattctc 180

attctcctta catcaatgat aaactttgta gttggagatt tgttgtggat gaagattatt 240  
gattgcagct tataggaagc tgctcttttt gttttgaaca atgttgctaa cttttcagat 300  
tcttataatt aatcagtctt atgatgagaa gttggttctt gattacatac tacaatcaag 360  
aagtaaaciaa gttaagcaat cctgtgacgg gtctgtgtt caaaagagta gatacttggt 420  
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tatggccccga ataaacggaa tcaa 504

<210> 4334  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-044-Q1-E1-A5

<400> 4334

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ttgctagagg aatcaaaciaa tgggtgttgt gaagtccacc aagtcgaatg cttacttcaa 120  
gaggtaccaa gtgaagttca ggagaagaag agatggaaag actgactaca gggcaaggat 180  
ccgtcttatc aaccaagaca agaacaagta caatactcct aagtatcggt ttgttgctcg 240  
gtttaccaac aaagacatag tggcacagat tgtatctgca agcattgctg gtgacattgt 300  
taaagcttct gcttacgcac atgaactgcc tcagtatggt ctactgttg gtcttaciaa 360  
ctatgctgca gcttactgta ctgggccttc ttttggctcc gcctgtttta aaagatgttg 420  
ggaatggatg acnaagtatg aagggaacg ttgaaggcaa ctgggagaag actttcccg 480  
ttgagccaac tgantcaa 498

<210> 4335  
<211> 489  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-044-Q1-E1-A6

<400> 4335

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aagtagttga gtatatgctt gatgtgggtt ctcacatgtg gagtatgcgg agaagcaaag 180  
caaaacttttt caggattatg ggagttttga gtgggttaat cgcagtagga aaatggtttg 240  
aaciaaatctg caactggaag aatccaatca caacagtctt gatccatctc ttgttcatca 300  
tccttgtgct ctatcccgaa ctaatcttgc ccaccatctt cctctacctc ttctcatcgc 360  
gtatctggta ctaccgttgg agaccgagc atcctcctca catggacaca cgtctctctc 420  
acgctgactc agcccccccc gacgagctag atgaagagtt cgacactttt cctacttccc 480  
gaccatcct 489

<210> 4336  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-044-Q1-E1-A9  
<400> 4336

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caaggaagcc aaaggtctc aaatttctcg gagcaggctg cggaaggatt agtcgacggt 180  
ggaaggagag agattttcac gccaatgtat ttcttcttgg cccggaagcc agagtaagcg 240  
gatgagagat ggcgatggc atcgtaggtc gaatgaagtg acaaaatttc tcaatttgca 300  
gtcttatttt ctatgtttat cggatttggt gcanagtttc ctaatcacca actaatattt 360  
tgggatgttc gtaacatgtc accgtgttgt tcatgtgcac tcctgcctga aatcctga 418

<210> 4337  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-044-Q1-E1-B1  
<400> 4337

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tccttggtct cgccgaaata gagaattttg tgaatctggg tttttagttc aggtgttaat 120  
 ataagatttt gatcaaaaga agacgagatt cgatccgata cgatctgatt gaagaagaaa 180  
 tggcgaatct gtatgtgaaa gcggttccac caccggatat gaataggaat acggaatggt 240  
 tcatgtatcc aggagtttgg acgacttaca tgcttattct cttcttcggt tggctcgttg 300  
 ttctctctgt ctctggttgt tcccctggaa tggcttggac tgttgtaat ctcgctcact 360  
 tcgttgtaac gtatcacagc ttccactggg atgaaaggaa ctcccttttc agatgaccaa 420  
 ngaatcctac natgggttaa acttggtggg aacaaaatgg gcaaattggg caacagcnta 480  
 cccgnaaccg ccaaatttct taccct 506

<210> 4338  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 4338

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cttgaatatg 120  
 ccttcaaaaa atctacaaca ggcagtcctc acaaacgaat tcacaaccaa cttcattacg 180  
 acctgtaagg actggctcga cgtaaatggt cttgctaaag gaaacttgga gaagaagaga 240  
 gatgataatg aagaagaaga gcgtctgaaa accgagtcta aacttccggg ccatgacatc 300  
 cacggtttcg ataacgagat naagtcattg caacacttct tgttgatta agaaggttag 360  
 gagggagttc aagagtcttg tgaatgtcgg gagaatatgg tgtttgggga agacagcatt 420  
 atgccagaag atcttcaatg atgaaan 447

<210> 4339  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-044-Q1-E1-B11  
 <400> 4339

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tcacacaagc cttccgtctc tggacaaccc ttgtctagta cagagagaaa tcaggcagcc 180  
tcaagcaggc acactatttc tatcccgcg gcatcattaa gtatggacac agatcaagct 240  
gaatcgcgta ggcctcatct tgtgatacga ccaccgacag aaagagaaca gcctcagaag 300  
aaacttggtta taaaacgttc gaaagagatg aatgatcatg acatgagtag tcttgaagag 360  
agtccacggg ttgagtcccg gaaaacaaaa agaatggcag aactggcggg ttttcagang 420  
cagcagagct ttagattgtc agagaaatct c 451

<210> 4340  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 4340

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gtaacggaat acaaaaagga tcaacttcct ctagtgttgg aagcattgga gaggatgcac 180  
gctcatctaa ctgcagctgt tgtttcaaac gatcccatct ttcttcagga agtaataggg 240  
aactcagtga atgggactac atatgctgga ctaagaggaa gaacaactgg agtcctcag 300  
aatcactggt ttggacctgc gggggacccg agagggggccg ggataggac accaagaggc 360  
tataaagctg gtttggtcat gccacaagag aagtcacta cgattatggt ccggttccac 420  
aaggttggga acttctcca tctacttaga agtgggtgtg ccactaataa ttaataaaact 480  
aagatnctaa t 491

<210> 4341  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 4341

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attttgtcac ttcattcgac ctacgatgac catcgccatc tctcatccgc ttactctggc 180  
ttccggggcca agaagaaata cattggcgtg aaaatctctc tcttccacc gtcgactaat 240  
ccttccgcag cctgctccag ggaaatttga gaccctttgg ctctcttgag gtgcangtct 300  
tatgtattca aggatcttga ccatgttttt gggttatgaat cgtccaacag ctgtaaggcg 360  
gaagctactg ngtgnganat ganttttgtc aanaggtaag gtacatggga ncgngngagt 420  
ccnttggcaa gatcctt 437

<210> 4342

<211> 449

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-F5

<400> 4342

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tggaggtatt tggaaaatct cccatgggtg ttacatctgc caatgttatt tacttgtctg 180  
caattctggg tgcgattgc gatggacaca aatgtgattg gaaatgtgag aatgaaaatg 240  
tttgtgggaa tatgtatcgc tgcaaactaa ctggactaac tcatgtctgc gacaagaact 300  
gtaaccagcg gattctctat gataaccata gctctttgtg ccgagccagt gggaggattt 360  
tccctctctc gtccgtcgag gaagcaggcg gttaaagggtg ttcggaagga agcttgacgc 420  
ccgctgagan tcaacccttc tgaaaacct 449

<210> 4343

<211> 438

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-F6

<400> 4343

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tggacacgcc accgacttct cgtatcgcat cttttggtca gacggagatt aactgggaca 180  
aacttgacaa aaggagggtt tacattaatg gagctggcct cttcactggg gttacagtag 240  
ctctgtatcc tgtatccgtt gtgaaaacaa ggcttcaagt tgcttctaaa gagattgctg 300  
agagaagtgc cttttctgta gttaaaggaa ttttaaagaa tgatgggtgtt cctgggtctgt 360  
accgagggtt tgggtactgtc attacagggtg ctgtacctgc aagaatcata attccaactg 420  
ctccttgaag aacaacna 438

<210> 4344

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-F7

<400> 4344

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agatttgtga gtctcttgct acttcttcct ggagaacgat tcagggtttg atgtgataag 180  
aatagtcacg gaggaagata gatttgggga tttttttttt atttgtagat tcatgaaaca 240  
aattcgctga tggcagagga ttttgatcct cgctctgcta tcgatattctg tattcgctcc 300  
gcttattttc gtatcgaatc ggcttaagag catcactccc gttggtcgta gagaatttat 360  
tgaagagtta tccanaatta gattcacgac aantgacctt agacttagcg ctattgaaca 420  
tga 423

<210> 4345

<211> 419

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-F9

<400> 4345

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nnnnagaaac agagagtttt tgattctctc tgttttcaaa tctgttccac taagctctct 180  
tgctttcggg aagattctgt ttcactgctg cattttggat ttttccgatg gatcgtaaga 240  
gttggccatg gaagaagaaa tcctctgaga aaacagctac tgtcacagaa gttgttgatc 300  
aggaaaatgg gaagaagccg agttatatcc aagatctcat ttgatcaata cacgaaatct 360  
aatgggttta aaagatgaag tcaaagagct acgaaagaaa aagttacaaa gccttgagg 419

<210> 4346

<211> 447

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-G1

<400> 4346

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agacgcatgt gaatcaagat gatctgtag tgaagtacca atacatctca gatgcgttga 180  
ttgctcttgc atacttctca atcccactcg agcttatcta tttcgtgcaa aagtctgctt 240  
tcttccctta caaatgggtg cttatgcagt ttggagcctt tatcattctc tgtggagcta 300  
cgcatttcat caacctatgg atgttcttca tgcattccaa agccgttgcc attgtcatga 360  
ctattgctaa agtctcttgc gcggttggtg cgtgtgctac cgcgttgatg ttgggtcata 420  
ataatccga tctcccaagt ggtaag 447

<210> 4347

<211> 417

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-G10

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tttcaaccat gactcgtgga agtcagagag agcgtgaccg tgaaagagct gccgctcgtg 120  
 ctggttgaaa gggtaagaat ggtgacgatg gtttgacgcc ggagcaacgc cgtgaaagag 180  
 atgggaaagc attgcaagag aaagcggcta agaaagctgc tcaagctgca ggtgcgagtt 240  
 ctggtggtgc agctggagga aaaggagctg ctgctaagaa gtgatgatga tcatttggtt 300  
 tgtcttttga gcatattgta nactttaatg tttgaaattg ggttgtttag acctgaagct 360  
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<210> 4348

<211> 445

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-G2

<400> 4348

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 attttcggga ttcattacag agagatggtg ttctgcagt atcagcagat gtgaaatttg 180  
 cttcaagtag atttccta at tatagaattg gagcta atga tcaa atattt gatgttaa ag 240  
 acgatcctaa agtgatgtcc atgaaagagg ttgttgccgc tgagacagcg cagcttatgg 300  
 accagcagaa acgtttgtct gttcgtgacc tcgctcataa atttgaga ag ggtttggctg 360  
 cagctgctaa gctatctgag gaggcaaaac tcaaagnagc aacttcgttg gggaaacatg 420  
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<210> 4349

<211> 421

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-G3

<400> 4349

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aagctgggtg actcattgga caagcttcgt gttagtgtcg cgagttcatc ttctaatttc 180  
aagaagaagc ctatcattat tatcgttggt ggaatggcag gtagtggaaa aactagcttt 240  
cttcacgcgt tgggtctgtca tacttttgat tcaaagagcc atggttatgt ggtgaacctt 300  
gaccctgctg ttatgtctct accatttggg gccaacatcg atataagaga cactgtcaag 360  
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a 421

<210> 4350  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 4350

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ttgagtccta atcatctctc tatctagcaa cgtataaata taaagagaga gagcagagaa 180  
atggggtttcg gctccttcac atctaccatc acttactggt tgttctttcg ctatccacat 240  
aagaagccaa agttcaaaag tgtgagccac ctcaaccatt accacaccat gccaatggct 300  
cgtccacttt ctttacagac gatagacctg aaagtaagga tgtgttgagc tggatgtgag 360  
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<210> 4351  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-043-Q1-E1-G5  
<400> 4351

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aaacctcaca tgagagcttt ccatctctca tgggtttcaat tcttttgctg ctctcgtctc 180

actttcgcag ctccgcctct cctccctgtt atccgtgaaa atcttaacct caccgccacc 240  
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ggcacggcat gtgatctttt cgggccacgt ctagecctcg ccgctttgac gctctccaac 360  
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caagaccggc gacaagacta ccttgatgta cacaaccatg ctcgagacga cgttagtgtg 180  
cctcatataa aatggcatgc gggagcagcc cgatacgctt ggaactatgc tcaaagaaga 240  
aagcgggact gtcgtctcat tcaactaaac tcacgcggac gttacgggtga aaacttggca 300  
tggagcagtg gtgatatgtc cggagctgcc gcagtgagat tgtgggtcag ggagaagtct 360  
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<400> 4353

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agtggggttt ctgggcaaat cctttgagtt acggtgagat tgggttatca gtaaacgagt 180  
ttcttgctcc aagggtggaat cagatgcaac ccaataattt taccttagga cgaaccatac 240  
tccaaaccgg tggaatggac tacaacggtt acatgtactg ggtatcatta tgtgccttgt 300

tgggtttcac tgtgctcttc aacatcattt tcaactctggc tctaacgttc ttgaaatcac 360  
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 attttagagc ttcgatgggt tctcaagctg gatttgcat ctctgagagt agcgagagaa 360  
 gggttggtga ttcggagagt gttggtggtg atgggcttgc gatctctgag cttgggatat 420  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 tattgtgatg agcaacatga tcgaagtctt ctactacaca gactatgatt caatggaaag 180  
 gaaaacaaaa gagtatgtct tcatctacat tgggtgctgg ctctatgctg tgggtgctta 240  
 tttgatccaa cattacttct ttagcatcat gggagaaaac ctcacaaca gagtaagaag 300

aatgatgctc tcagctatct tgagaaacga agttggttgg ttcgatgagg atgaacacaa 360  
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<212> DNA  
<213> Arabidopsis thaliana  
  
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agatgacagc aaacagctac ctactgagtg ggaaattgaa aaagggtgaan gaattgaatc 360  
tatagttcca catttctcag gccttgagag agtcaatagt ggctctgcca acagcttctg 420  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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ttggagtacc accgccacac gtcgatgctc cgccacaacc tcatggtctt taccagtcac 180  
agcctcattt tgatccttac gcgcctactc ctcaagctcc ggcgccttac cgatcagaaa 240  
ctcaattcga accccacgcg cctccgcctt accgatcaga gccttacttt gaaactccgg 300  
caccaccgcc ttcatthtgg catgtgagtc atgttggtca ccaatcacc aacgaatctt 360



acccaccggg aacaccaccg ttacggaggt tatcaacagc cgtctaattc cttactggaa 420  
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<210> 4358  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-043-Q1-E1-D12  
 <400> 4358

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 ccacaatctg aggccttctc tctgcagctt tcttgcgat aaagataccc catctcaaag 180  
 cagctttaag ctttagccat ccaacaacag ctttccccga gcctctatta cgttctcttc 240  
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 gtctgaccaa accctccttg tgttcccaca agtggtcaca ccgataccaa acgtcttcaa 360  
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 c 421

<210> 4359  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 <223> Clone ID: LIB22-043-Q1-E1-D3  
 <400> 4359

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 atatgagggg gtaagaaaag tgtatgtagg gcaagatctc aaccgtatca cttacatcaa 180  
 gtttgagtac gtgcaggaag acggcgaagt agtaacaact gaatatggga caacaaatca 240  
 gcaccctaaa gagtttgtaa ttcaataccc ggacgaacac atcatagcag tggaggggaag 300  
 ttaccaccaa gtgggtctca ttgccacaga ngtgattacg tccctcgtct tcaagacctc 360

aaagggtaga aagtctccat tgtttgggtcc aaacttactt ggggnattacc gaccggtaca 420  
aagtttgggtt ttgaaggatt angggaaaag aa 452

<210> 4360  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
  
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acaattaccg cactgatgtc atccaagctc ttggaggtgt tgagggtatt cttgagcaca 180  
cattattcaa ggggacatat ttcccgcacat gggagggact tttctgggag aangcgtctg 240  
gttttgagga ntcgatgaaa tataagaagt tgactaatgc tcagaggtct ggtctgaacc 300  
agattccaaa tacaagattc acgctttggt ggtcgccaac aattaatcga gcgaatgtct 360  
atgtgggttt ccangtgcag ttggatctga caggaatatt tatgcatgga aaagaatcca 420  
cactttagga n 431

<210> 4361  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-043-Q1-E1-E11  
  
<400> 4361

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aaatgggaat ttcaaaacca ctccctctat tttcgatttt agtcctctat ttttcaactct 180  
acaccattac accaacttct tcattagcct cctccaaga tcaattcatc aactgtgtcc 240  
aaagaaacac acatgtttac ttcccacttg agaaaacggt ctttgctcct acaaaaaatg 300  
tctctatgtt cagccaagtt cttgaatcga cggctcaaaa tctccggttc ttgaaaaaat 360  
ccatgcctaa accggggatt catattcaag ccctattcac gagtctcaag ttcaaagc 418

<210> 4362  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4362

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cttctcagag atctcgaaga cattattcac ggttcaccca cgccgccgga gacgtggatt  180
cagattttctc ggcggatcct tcaccctaatt ctccctttct cttttcacca gatgatgtat  240
tacggttgct acaaggattt cggacccgac ctaccgctt ggatacccca cccaagggtt  300
gcttctttta ctaacgtagg caagttatta gaaaagcgag gcaaagagtt tttaggtgga  360
aattacaaga atccagtttc gaagtttctc ccagttttca agaagttcn                409
  
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<210> 4363  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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tcttttcttg tccctcgccg tcgaatcctt tgcaccagga aagtagcaat cataaaggga  180
aatgcgggat attcgactgc tactgattgt ggtggttctc atgggtttca tcattcaggt  240
catcaaaggt catcctctgt tgagttagt ggagagtgga aacttaattt gggatctaag  300
acggcgagaa tggttccgcc aactgtgaaa caagctggag ctgtaagtgc ttggagggag  360
gaagtcaata ataagttaag aggaagaaat aganaataag ngaacaacca agataaaggc  420
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<210> 4364  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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acagaggcaa caacagcttc tctaccacgc tcaatgatct ctacaccaag tatatgccgn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
ngctcacact gaagattaag atcgctaata cttcgttgcg gcggctatta agcggagcag 360  
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<210> 4365  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4365

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aatgctctaa agaacaagct gcagaatctg gctggtcagc gttctgatgt gctcgagaat 180  
ctgactccca atgtgagaaa gcgcgttgat gccttgaggg atatacagag ccaacatgat 240  
gaactagagg caaaattccg tgaggagaag agctattctt gaagccaagt atcaaagct 300  
gtatcagcct ttgtatgtca agcgttatga gattgtgaat gggcactact gaanttgaac 360  
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<210> 4366  
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<212> DNA  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB22-043-Q1-E1-F1  
  
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 tcgctcgttt ggagctaaca gtaccgttgt gttggcgatc atcttcttcg gatgtttatt 180  
 tgcgttgtcc tctgcaatag aagaggctac gaagtttagga tcagtgatag ggatagatct 240  
 tgggtactact tactcttgtg ttggtgttta caagaatggg catgtcgaaa ttattgccaa 300  
 tgaccaagga aaccgtatta caccttcatg ggttggtttt actgactctg aaagactcat 360  
 tgggtgangct gctaagaatc aagcagctgt taatccagag aggactgtct tcgacgttaa 420  
 gagattgatc gggcgaaaat ttgaggataa gggangttca aaaggatang aaacttgtag 480  
 cctaccanaa ttgtga 496

<210> 4367  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 tctcgagaag aaagcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnntgt tcgagctcct gcggcggaaga aaccgagtcc ggaataccca ttttggcagc 240  
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 tcctttacct aagtctcgat cctgattccg gttacacgtc tgcctccgcc gctgcttctg 360  
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<210> 4368  
 <211> 416

<212> DNA  
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 <223> unsure at all n locations  
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<400> 4368

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tgctaaagct attgaaggag agcataagtt ttgtggaact tctttggagt cattgatcga  180
tcttgtgaag aaaacaatgg ggtataatgt tgacctcaag gtcacgacga ctaaagtaat  240
ggtagcggcc caaaattcga taagctacgc ttgcataaac tacacattcg tcgaggctcc  300
aaaggaactt gttgggatta aagatgttgg gatgtcacag aatgccttac cttatgctgt  360
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 <211> 407  
 <212> DNA  
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<400> 4369

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tccgaggctg aagtcgctgc ctatggcgtg aatagtgggt taagtgctgg tcttgggtgt  180
ggtaggtggt ggccctggag gaggctacgg aggtggaagc ggtgaagggt gtggagctgg  240
atacggannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaggatacgg tggtaggaaa ngtgcctggt  360
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 <211> 385  
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<223> Clone ID: LIB22-043-Q1-E1-F2

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<210> 4371

<211> 406

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-D1

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taaacattac actcctccgg ttaaactacta ctctctcca ccggtatacc actccccacc 180  
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<210> 4372

<211> 432

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-041-Q1-E1-G4

<400> 4372

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acgcgatgcg tgcgtcgtg ctacggtttc gaaaacgttt gaatcgacgg tgaagtcaga 180  
tattatatgg gagaagtttc ttccggcgga ttatgaatct ctgattcctc catcgcgagt 240  
tttctcatcg aagaaggagc tctattttctc tctctgtaac gatcctgttc tattcgacga 300  
tgacaaaaag agcgtatgg tagagaaagc gagtgggaag aggtgtctga tgttatctgc 360  
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<210> 4373  
<211> 423  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-G7

<400> 4373

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ccatccgtca aagccgtaaa ggagatgcac ggcgtgccgt ttggacgggtg gagcccgtcg 180  
tcgataaacc taatctgata aggttaaaga gcagccacgg cacgtactta acggcgagca 240  
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tgt 423

<210> 4374  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4374



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<210> 4375  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
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gaagaagagg gagttagaga aacaaaggca agacgaaaaa catagacagc agatgaaaaa 240  
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caccaccgac agggtcgaag aatagggttaa agaaaccaac caccttcac tgcaggtca 360  
agttccggaa tgagctccct gaccctagtg cacaagctta aagcttatga cccttttaac 420  
ngggat 426

<210> 4376  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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ctcnggagct attgggtcgc ttctgagtac aacgatcttg tatectcttg anacatgtna 180  
atcaaagttc caagccgagg ttcgagctcg tggtcancaa anatacanat atctttccga 240  
tgttatgtgg gaggcaattt ctaaaggaca acgtcttttc actgtatcaa ggccttggaa 300  
ctaagaattt tcagtctttc atttctcaag ttcategact tttatatgct atanctattt 360  
caagagaatt cataagtgga angactgggt ctaaancaat tggggctang gctaatttgc 420  
tcattgcc 428

<210> 4377  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana  
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<223> Clone ID: LIB22-041-Q1-E1-H8  
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tcgaacaaca accatcagtc gtcgtgaaga aaccaccggc gaaagatcga catagcaaag 180  
tcgatggaag agggagaaga atccgtatgc cgattatatg tgctgctcgt gtttttcagc 240  
taacgagaga gcttgggtcat aagtcagatg gccaaacaat tgaatgggta cttcgtcaag 300  
cagagccttc tattatagct gcaacaggaa ctggtacaac tccaagcgag tttctcaact 360  
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<210> 4378  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-H9  
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aagggtttgaa atcatggagg tcgttgatat tgatgccga gctgctaagt tagggattga 120  
 ttggtctcag gtttaattttg attccatcca acttcctcct ggagaagact ttgggatcga 180  
 gagtgatgat gaagctgttt accaggatga ccagtctgaa ttcgacactg gattcggtaa 240  
 cattatcgtg gtcgatcacc tccctgttgt tccaaggag aagtttgaga aacttgaagg 300  
 tgttgtcaag aaaatttaca accagttagg tgtgattaag gaaaatggac tgtggatgcc 360  
 tgttgatccc gataccaaga tgacattggg ctactgtttt aatgaattca acactccctc 420  
 angganccca aaaacgcca aggga 445

<210> 4379  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-042-Q1-E1-A11  
 <400> 4379

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 cttcagtgt ttcgagaaaa agccagtttc cattgatgtg ctaccagatg agtgtctttt 180  
 tgagatcttt aggcgtttgt ctggaccaca agagaggagt gcttgcgctt ttgtctccaa 240  
 acagtggctt acgcttgtaa gtagcatccg tcaaaaggag attgatgttc cttccaagat 300  
 aactgaagat ggtgatgatt gtgaaggggtg tttgtctagg agcttagatg ggaagaangc 360  
 aacagatgtt agattggcag caattgctgt tgggaactgc tggtcnttgg ggactggnaa 420  
 aatgtc 426

<210> 4380  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-042-Q1-E1-A12  
 <400> 4380

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aagtacagag atggaattga caaccttttg gtctctttga tcggtggnnn cccattgcn 120  
atgcctacag tcttgtccgt gaccatggct attgggtctc acaggttgct tcagcaaggt 180  
gccatcacca agcgtatgac tgccattgaa gagatggcag gaatggatgt cctgtgcagt 240  
gacaaaaccg ggacactaac cctcaacaaa ttgaagtgtg gncaaaaact tggtcgaggt 300  
tttctgcaag ggtgtggaga aagatcaagt ccgantatnt gcagctatgg cttccagggt 360  
tgaagaanca gggatgccat tgatgcancc atggttgnga agctgctga 409

<210> 4381  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-042-Q1-E1-A4

<400> 4381

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aaacaagctc ctcaagttga ctttccaact actccttttt ctacttagtg tttcatcgga 120  
atctccatgg atcgccgaag atacgtctca aatccagacg aagctcctcg aattcgcgaa 180  
gagtcgggag gtcttcgatt ggatggtgaa aatcagaagg aaaatccacg agaatccgga 240  
gcttggttac gaagaactcg agaccagtaa actcattagg tcggagctgg aacttatcgg 300  
aatcaagtat aggtatcctg tagctatcac cgggtgttatc ggatatatcg gcaccggaga 360  
accgccattc gtcgccctga gagctgatat ggatgctttg cctattcagg aagggtgttg 420  
gtgggaagca caagagcaaa atcgctggga aaatgcaagg cttgcggnga tga 473

<210> 4382  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-A7

<400> 4382

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gtctcctttc actctcgctt ttgatatcgc tggctctgca cctcgtgggt ttggcatccc 180

tgagttcatc tccaaaattt cgtatctctc tgtttttgcg gttgctacgc ttggaactta 240  
 tgacattgca ttggatttgg gaaagaaagt catatgccaa agggattgca aaacttgtaa 300  
 tgggtggcag gcattacggt gcactatgtg caaaggaaca gggagtgttc attaccaaat 360  
 caaagattac aacttgagaa gtggagagaa accaacagca gattgtgtcg caaatgctat 420  
 agtt 424

<210> 4383  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-042-Q1-E1-A9

<400> 4383

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 gctctctcgc ttcgaaattt cttcaattcg attccgatct caccctcatt gatccgaang 180  
 agtattttga gattatttgg gcaagtttaa ngtcaatggt agagccagct tttgctgaaa 240  
 gatcgggtgat aaaccacaag aagtatttac aaaatggctg tgttgtgact tctccagcgg 300  
 ttaatatcac agacaccgat gttttgaccg cggatggctc tgtccttggg tatgattatc 360  
 ntgttattgc tactgggtcac aatgatgtgc ctcccaaac taagcaagag aaattatccc 420  
 aataccaaac agaacatgag gaagattaag t 451

<210> 4384  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-B10

<400> 4384

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 ggcttcgtcg acaatgcgag aatggctcag tatagacaat caggaacaga gaggtttttg 180

ggaggtcgaa gcggttacaa tccttatgtc aacggtggag cttcgtcaga tcacgtagcg 240  
 atcgggatcc gtaacggcgg tggtagtaat ttcggagttg taactcagca cgggaaagct 300  
 agtcgatggc ggcgatctac tcgattagat aggaatcgtc gttgtggtgt tggctctttg 360  
 gtgtttgttc tttgtgttgt gtcggttgtt tgtgtctcag cttactatta tttctccggt 420  
 tatactaatt tcggcaaaag atgataaagg aattgatata gctgaagggtg attttcctac 480  
 gaatgt 486

<210> 4385  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-042-Q1-E1-B2

<400> 4385  
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 atccgaatcc ggaccgaaa gcctgaaaac ccgacgatta attgcacgat gtccgatgct 180  
 ccgtcgtctt ccccgatgc cacggcgctc cactggtgct atcactgcaa caaacgcgtc 240  
 gtcgttgaaa ccttagatga ctttgcgtg tgctgcgaat gtaacaaagg tttcgtcgag 300  
 tcaattcaac cgactccgc cgcttattca tcgccggcgc caccgcagcc actttcccca 360  
 gatctgaatg tagaagactc cagtattggc tcgcatttcc tccaagatgc tccgcttggt 420  
 agcccangcg ctttctcaac gttcaacaac aacgaaaacc ctggn 465

<210> 4386  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-041-Q1-E1-G3

<400> 4386  
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tcttgtgtgt gctttcttct tgaagtacta tgcttatgtc gatggtggtg atggcggtgc 180  
 gatgaagaga actggtaagg ttcagagtga ggagaatccg aaggactggc catggccgtt 240  
 ccaagtttaa agtttgtgtc cttttgtttt gtggtgagaa ctgttgagtt aagatcaata 300  
 tcaaagtgtg gttttaaggt tctgtttcgg tggggtatta ttgtgatttg ttcatttggt 360  
 ttttgaagtg tttgatgtaa ttcgtcaatg atctgttaca taatataaag tcctttctaa 420  
 aaa 423

<210> 4387  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-041-Q1-E1-D5

<400> 4387

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 caatggtttg gaggttcgtt aatggcggtca tagactcggg agattaaggg agaacaagta 180  
 ctctgcatct tctggatttc tctactatttc tccttctcta gaggaatagg cgagaaattg 240  
 agattaataa aaaggggtgt tttttggttc tccttcgttt gtataaagcc tgccgcttct 300  
 taaggttctt tggaaattct caagtgatgg aggaaaatct ggtttacttc gcatgagcta 360  
 ttaacgaaat ttcacatga ttgtctcact gtcacacttg tgggagtatg cgtgaatg 418

<210> 4388  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-D6

<400> 4388

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 tgggcaactg cgttactaga gacgaggctg ccgtcttcac tcctcaagct caagcccaac 180  
 agctccagaa gaagcactcc cgatccgtct cagatctgag cgatccatcc actcctcgt 240

tccgagacga ctctcgcaact cctatttcgt atgcccgaagt catccccctt actttgtttg 300  
agcttgagac catcaccaag agcttccgcc cagattatat actcggagaa ggtgggtttcg 360  
gtaccgtcta caagggttac attgatgaca atctccgcgt cggcctcaag tctctccct 419

<210> 4389  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-D9  
<400> 4389

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acaagttgaa tgatctcacc gatgtccaag aagatattgg tacatatgtt aaagtgaag 180  
ttcctgatga tgaaataaaa ggtgatggcc atgattcagt tgcagcacia aaggaagaaa 240  
ctagctcaat agaggagaag agagaggttg aacatgtcaa ggcagagatg gaagatgcaa 300  
tcaaacatga agtttccgta gaagagaaga acaacacatc tgaaaatatt gatcacgaag 360  
ctgcaaaaga gatagagcaa gaggagggtg agcaaacaaa tattgtcaag gaagagatnc 420  
gagaagaaga gaaagggatt atc 443

<210> 4390  
<211> 486  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-E10  
<400> 4390

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atgaactggg cttctttgct cccttctata aagatttcag gataaggttc tctaaactgt 180  
tgagtataa attcaagaag atggattata aacttgcaat gagtgttttg aaccctaaga 240  
tcaacttccc anaggttgat ttgactggaa attcaccaga tggatttttg aagaaactcg 300



acggagttct ttcaccttat gatatggaga gattcagagc atacactgcc aatctcgttg 360  
 acttcaatct ggtttatgac atctgcaaaa ctctagctca tcattatttt caagagaagc 420  
 tcccagtctc gctgtcgtan gttcaagctt ccggtaccen gtgtttgggc ntgcaagagt 480  
 caaatt 486

<210> 4391  
 <211> 443  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 gatcggagag acgccgtgat ttgtcctaaa cctcgtcgtg ttggtgctct taatcaccac 180  
 tcttctcgat ctctccgttg gcaactcaat catcagatgg aattatgtga atcgaattca 240  
 ggaagtgaga ttttggtttt catcctcaca aagggtggtg gtggtggtgg tgagcaagat 300  
 cagacgagga cggatgatgac gccacctctg ttctttacag ggtcacctcc aagtagagtt 360  
 tctaaccat taacaaaaga ttcgcttttt cgagaagagc ttctcaaggt ggcttctccg 420  
 agtccatcga ctccacgagc aaa 443

<210> 4392  
 <211> 422  
 <212> DNA  
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 <223> Clone ID: LIB22-041-Q1-E1-E6  
 <400> 4392

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 cctcaaggat ttcaaagatt cggaatcatg agcgtgagag acttcgtggt cctccatggt 180  
 taaaaacggt gcaaggggca cttcttagct gctcatatgc tgtgcttgac tatgccccaa 240

ccggtctaatt tgcagcagtt tttatcttca aaatgatgga atggtggtat caatccgctg 300  
aagagagatt atcagctcca acagtgtacc ctccacctcc acctcctcca agccccaag 360  
atggccaaag aaggaatccc tctacctcca agacagattc ctctgtgctt tttgcaagca 420  
ta 422

<210> 4393  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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ttggcaaagc tagaagcaga gaaagtggac gttgattcaa agttcacctc tttaacgcagc 180  
agtctgtcag agcttctcaa ggaggcgtca caagcttacg aagaatatca cgangcggtg 240  
cataaggcaa aggacgagca ancggttgaa gaatttgcgg tgganacnac aaagagagca 300  
aaacatattg ggttnagttt cctaattcac ttaattgaac taatgagatt ccntgatttg 360  
tgggttaaag cncaatgttc aattaaattg tgggtcctgn gtttaanttc cctgngttgn 420  
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<210> 4394  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-F10  
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gccagagctg tgcccatcac gtatcttgaa tctgcagtgg ctaaaggagc tgtgtgtttg 180  
gatggtagcg cgccagcata ccatttcgat aagggatcgg gctcaggagt gaacaattgg 240

atcgttcata tggaaggagg aggatggtgc actgatatag ctacatgcgt tcaacgtaaa 300  
 agtacaatga agggttcttc taagcttatg aacaaagact ttggtttctc cggtatcttg 360  
 ggtggcaagc aaagcaccaa tccagacttt tacaattgga atagaatcaa agttcggtat 420  
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 tt 482

<210> 4395  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-041-Q1-E1-F2  
 <400> 4395

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 ggtcttctcc gccactgacg ccaagagaag cgctcgtgac tcccacgttc cgattttggc 180  
 accactccca atcggattcg ctgtgttctt ggttcaattg gcgacgattc caatcaccgg 240  
 aacaggaatt aaccagcta ggagtcttgg agctgcaatc atctacaaca aggaccacgc 300  
 ttgggacgac cactggatat tctgggtcgg accattcatt ggagcagctc ttgcggctct 360  
 ttaccaccaa cttgtcatca agagccattc cattcaagtc cagattctga tttgatttcc 420  
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 tt 482

<210> 4396  
 <211> 424  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-041-Q1-E1-F5  
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 cttttccggc aaagaaaggg ccggagatgt ttcaaggaaa agtaatgcat tcgatggatt 180

actgcaagtt agagaaagaa gaagcttcta ctctcctcag tggcaaaaaa gtagccgtca 240  
tcggcttcaa gaaatccgcc attgatttgg ctttagagtc tgcttttagct aatcaagggg 300  
aaggaggaaa agcttgcaca atgggtggtga gaacaactca ttggggggatt ccacattatt 360  
gggggtgtggg gcttaacatt cctccctggt ctactcctcc aagagcttct caagttcctc 420  
caag 424

<210> 4397  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-041-Q1-E1-F8  
<400> 4397

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tggtgcaggt tttgctggaa tctctgttgc ctggcacctg ctttaaggaga gtccaaaaga 180  
gctgagatta agtggtgacg tatatgatga agttggcata ggaggtggtg cttctggtgt 240  
ttctggagga ctctccatc cttattctcc taaaggaaag ctactttggc atgggtgctga 300  
gtgttgagga gaatgttttag aagctcttaa atgtggctga aacagctgct tcttctagtt 360  
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<210> 4398  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
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<400> 4398

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngc tttggtcaaa 180  
cctgaatccg agacacgaaa gggcctttac ttcttgtcga atcttgacca gaacatcgcc 240

gtgattgttc gtacaatcta ctgtttcaaa tccgaggaga gagggaacga ggaagcagtc 300  
 caagtgatna agaaagctct gagtcaagtt cttgttcatt actatcctct cgctggacgc 360  
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<210> 4399  
 <211> 430  
 <212> DNA  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB22-041-Q1-E1-G2  
 <400> 4399

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 ttgggactga ttgtgaattc acttaaaacc cttgatgcgg ctgttcaca aggttgcca 120  
 tgagcctana cgacgaccac actctgctca aaanattgct cttgttttag acagagcacc 180  
 caaacatttg caaccagatt tagttagtct ggttcccaa ttggttgagc attcagagca 240  
 cccactggcn gctttagcac ttatanaacg gnttcaaaag cctgaagctg aaccancgtt 300  
 gcntgaacca atatacaatg ctcttaancc anttagaatg ngacantgna gtgtgggagg 360  
 acattctatc tcaagtcctt ttgaagcttt tgancnactt agatnangga atcctcttgt 420  
 nggcggccaa 430

<210> 4400  
 <211> 430  
 <212> DNA  
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 agatgggtgg agagagaatg tgggtgggtg catcatcgtc gacgaaactc cgatcaaacc 180  
 ttgaaagatt tctcagagga atcactccaa aacctccttc tttctcttta tcacagagct 240

gcaagaatga tttgaacagt ttgtggatcc atgagaacaa agatgagatt gaatatttca 300  
 ggcttagtga tctttgggac tgttttgatg agccaagcgc gtatggactt ggatnaaagg 360  
 tcgacttaaa caatggtgaa tccgttatgc agtactaagt cccgtatcta tccgccaatc 420  
 aaatctatac 430

<210> 4401  
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 <212> DNA  
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 tggtcgttat gtgcagtata atgtctatgg aaatctcttt gaagtttcta aaaagtatgt 180  
 tctctctctt cgtcctatcg gcagaggcgc ttctggcatc gtctgtgctg catggaattc 240  
 ggagacgggt gaggaagtag cgatcaagaa gattggtaat gcatttggca acattatcga 300  
 cgctaagaga actttgagag agattaagct tcttaagcat atggatcatg acaatgtcat 360  
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<210> 4402  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-041-Q1-E1-B6  
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 acaagtagcg atgggttcg tgaatgcact tgtgaagaaa gctcttgatg ttggtgtgaa 180  
 ccatatgatc attggaaaat aataccgaaa ataacgttta ggctaattgg cgatcatttc 240  
 atcagtgggt tgctcggggc gagtttgatg caatttttct atttgcttgg tctgtcctac 300

acgtcagcaa ctgttgcggtg tgctttggta agcttgatgc ctgcaatcac ctttgctttc 360  
gctcttattt tgagaactga gangataaca agatctaaaa gaccaagca ngaatgataa 420  
a 421

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<211> 416  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-B7

<400> 4403

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atcgctggga aaaatctgat ggaagcagct tcaagttttt tgtgtagaag tattcggatt 180  
ccgtcgacta ctacggcgac ggcggcggtc acgttcactc gaccgccgtt aaactacgtt 240  
tgtgttgtcg gagttcgtgt tttcccgacg cggaaggtct tttgcagcgg cgtaaatggc 300  
ggctccagtg ttactaagaa gaagccacga aggaaaagta acgtttccga taaacttang 360  
tttaagaaaa ttgagaagag gaacgataat actgaatctg agagtttaag tgttgt 416

<210> 4404  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-B8

<400> 4404

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ttcacaacat ccaacaatcc tgatgtctgg attcctgcat acaagtcttc tcgctgggtc 180  
tcggtgttct tcgtgctcta cgtgctaatt ggcgtctact ttgtcacaaa cttgattctt 240  
gccgttgttt atgacagttt caaagaacag ctgcgaaagc aagtatctgg gaatggatca 300  
aatgaagaga agaattgttg agaaagcctt tgggtcttat agactcagac aaaaacgggg 360  
agattgataa gaaccaatgc attaagctct ttgaacagtt gactaattac aaggacgttg 420

<210> 4405  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4405

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  180
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  360
nnnnnnnnnn agaaattcca catggcttcg tctttgcaac cttcangtta accccaatgt  420
tgggaaa                                           427
  
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<210> 4406  
 <211> 489  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <400> 4406

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tcttcgttga tctctgtgga agaaacagat aagagaaaat cgcataaatt tttttagaaa  120
actaggtttt aatccttcga ttgcaagcta cttcactaat acgagtcctt tgatctcaat  180
tcttagtttt tctcctcaat tgccgatttc tctctttctt ttcgagcaga aatcgtaga  240
tcctttatcg ctgtgtaata gtagtactaa ttttaataat cttgagagta attactccgt  300
tcattgttga atcatggagt ccggaggcaa aactaatcgt cagctgcgta aagctatttg  360
cgtctcaaca gacgagaaga tgaagaagaa gagatcacct tcagtgatag tgattgggag  420
gtgggtatggc tgggaatttc aagccgctcg cactcttcaa gatgcttccc ttcaaggttg  480
  
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ttgtantgg

489

<210> 4407  
<211> 481  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-C12  
  
<400> 4407

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aaaaatctga ttgtttttcc cactttgcat ctgttttgag gatgccagct acggattttc 180  
aaggatcatt tggaaggctg ttgctaagtt tacggcgaga ccaagttgac tcatcaacag 240  
tcgtctccgg aagtagtagc caccacgagc caagcaccat ggaggttgag ctagattcgt 300  
ttcaaagaca agtcgctgag aaattcatcg atctcaacgc ttcttcaaac gaccttctct 360  
ctctcgaatg gatcggaag cttcttgatt ctttcctctg ttgtcaagaa gagtttcgag 420  
ctatcgtatt caaccaccga tctcaagatc tctaaatctc cgatggaccg tttganttca 480  
a 481

<210> 4408  
<211> 423  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-C2  
  
<400> 4408

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ccgatcacga gatacaaatt tcactttctg atatcttgga tcttccgatc acnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag 180  
agaagaaacc atgaatgctt tagctgcaac aaacagaaac ttccgtcag catctcgaat 240  
cctgggtttg gattcgaaga tcgagagaag tcttatgatc ccatttagag aaatcaaggt 300  
tgagtgtacg attcctaaag acgatggcac tctggtttca tacatcgat ttagggttca 360

acatgacaat gctccgtgga cccatgaaag gtggaatcag atatcatcct ganggttgat 420  
tca 423

<210> 4409  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-C4  
  
<400> 4409

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gggattaaac taactttctca ttctcattcc acctttcttct tctttgttct tgtgtgctac 120  
taaaaatcaa gaaagcacaa ggagacaaat aaacctatcc atttcattac caaacaagcc 180  
gtacannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc tctcttcaac tagacttatt actcggatca 300  
gctattcatc ttaaaaacca aacttcattc aagacccaac agggagattc aagaagctta 360  
gaagagtgga agcatatctc agcaaaatca acaaaccttc catcaaaaca atccacaagc 420  
ccaagacggg agatgtaata gaatgtgtac cgtctcattt a 461

<210> 4410  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-041-Q1-E1-C5  
  
<400> 4410

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atccaaagag aatcctgact gacgttgaac aaacacaagc ccttgtgcgt aagctagact 120  
ctgagaaaaa aattgaggaa aatgttttac aagggtcaga aactgaaaaa tcaggtagag 180  
aaaagttaca cagtggttct actgggtccag ttgtaatcat aaggggggttg acatctgtga 240  
aaggccttga ggggtgtgaa ttacttgaca cgcttggttac atatctatgg cgtgttcatg 300  
gtctggacta ttacggaaag gttgaaacaa atgaagctaa aggggtttgcg gcatgtgaga 360

gctgaaggaa aagtttctga tgcaaaagga gatgagaatg aaagtaaatt cgactctcat 420

<210> 4411

<211> 411

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-041-Q1-E1-C6

<400> 4411

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agcttttgac ggcgttgaaa atcaaagaa cgggccagat tcctctcttc gtctctctca 120

agatcctcgt gagcctcgtt cattattatc atcttcttgt ttcccaatca ccctcaagtt 180

cgttgatgtg tgttaccgag tcaagatcca tggcatgagt aacgattctt gtaatatcaa 240

gaaactatta ggattaaaac aaaaaccgtc cgatgagaca agatcgacgg aggagaggac 300

gatactaagc ggagtcaccg gaatgatatc acccgggcag tttatggccg ttcttgggac 360

catcggaag tggcaaatcc tacgctacta aacgcagtcg canggagact c 411

<210> 4412

<211> 418

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-041-Q1-E1-C8

<400> 4412

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aaatcgagat ggcttttagga aggtttgaaa atgcagttat ggctgctgag aaagctagcc 120

aaatcgatcc aagatgcaac gaagttgcta tgttacataa tactgttaca ttggttgcta 180

gggctcgtgc tcgtggcaat gatctttata aatcagaaag atacactgaa gcaagttcag 240

cttatgctga aggccttagg cttgatcctt gcaacgctat tctatattgt aatcgaacag 300

cttggttggtt taaacttgga atgtgggaac gctcgattga agattgtaac caagcgtgc 360

gttatcaacc aagttacaca aagccacttc ttcgganggc tgcctcaaatt agcaagat 418

<210> 4413

<211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-041-Q1-E1-C9

<400> 4413

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tgattttacc tccttagttg ctgtgagatc aagaagtggg gaaagaaaag ttactaaatc 180
tggatgttat ttgattgtcg tcgttgggtc tgagctatga ggagcgttaa taatagtagt 240
gtcgacaccg tgaacgcgcg cgcttcgccg atcgtctccg ctgagtctag aacacaaccg 300
tcgtcgggtc aagaaaaaaa ggggaagctg gtggagcttg tactgggtgt ttggatncaa 360
gaagaacaat aaaaggatag gccacgcggt gcttgtaacc gaaccagctg catcaggagc 420
tgcggtggct ccagtccaaa actcttcgan gcaattctac ttcaataatc aaggcccttt 480
aaaa 484
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<210> 4414  
 <211> 294  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-041-Q1-E1-D11

<400> 4414

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ctgtggcatg ctaagccaga gaagtatgat atgtttcaca tgattcttca ttcaatttgg 180
tataaccgag ttttccaaat ttctgtttaa aaattttgtt caacaattca atgtacattt 240
tttacagata aaatttctga gtaaactcaa ttacaaaaa aaaaaaaaaa aagg 294
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<210> 4415  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-041-Q1-E1-B12

<400> 4415

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catggatgat tggcgtccag gcaacatata tagacgacaa tcgcctttgc tgcagcagca 180  
caagacaaga aaaagtgtgt tccatggcat gatcactgca tagatgatcc tcttgtccca 240  
gagcaaagac ggcgggtttct catcgcattc atggcgctcc gatactcttt tggggcagat 300  
tcttggaccg gatactgaac ttatcattag ttttgttaga atgggagtat gattaggcca 360  
ttcattacag tttatgatta gaggcattgc tatcccttga gctttggagt aagaaaatgy 420  
ggaaatggta tagatgtgaa tgaagtataa tttttccttt ggnatcatat caccatcaat 480  
tgtc 484

<210> 4416  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-H11

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agttcaagaa aatggctctt agagtcattg ctgagagctt atctgaagaa gaaatcgccg 180  
gcttgaaaga aatgtttaat atgatagatg cggacaagag tggtcagata actttcgaag 240  
aactgaaagc aggactaaaa cgagtagggg cgaatctcaa agagtctgaa attctcgact 300  
tgatgcaagc tgctgatgtg gacaacagcg gaacaataga ttacaaagag ttcatagctg 360  
caacattaca tctaaacaaa atagagagaa cagggacaat ttgtttgcan gcttt 415

<210> 4417  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-H12

<400> 4417

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gaagacaaat atatcttttc tattcctcag atctctgaaa tcgaagtctc tcgaactggt 180  
ttgttttggt ttttttccga tgagggtgaa gagacacaca gtagatttca gtagcagtat 240  
cggcgtttgt gcttcttggt tccgtgaacg actctttact ctgcgcgttt caaccgccgc 300  
gtctgaaaac gacgataacg atcatcgta ttctcgtatt tctccacctc ctctgctttt 360  
tcctcgttct gtttctcctt acgttgctcc tagaaaatcn gacgccggaa ccg 413

<210> 4418  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-H4

<400> 4418

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnagcaa taacgggtggg tcgaacccat 180  
ctgcaggaga agaatttaag gatatgatta agggagtgac taagttcttg atgatggtga 240  
ttttccttgg aaccatcatg ctttgatca tgatgccaac actaacctat cgaaccaagt 300  
ggttgccaca tctgcgtatc aagtttgga catccactta ttttggtgcc acagggacga 360  
cgcttttcat gtatatgttc ccaatgatgg tcgtagcttg tttgggatgt gtctatcttc 420  
acttcaagaa tcgaaagtcg ccacaccata tccataaggg agacgaaggg aaggantggt 480  
ggagtta 487

<210> 4419  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-H5

<400> 4419

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gtaacaccag actcccaccg gaggtgaatc gcgtgctcta cgttcgtaac cttcccttta 180  
acataacgag cgaagagatg tacgatatct tcggcaagta cggcgcaatt cgccagattc 240  
gaatcggttg cgacaaggcg acgaaaggta ctgccttcgt cgtttacgag gatattctacg 300  
atgccaagaa cgccgtcgac catctctctg gcttcaacgt cgcgaaatcgg tacctaatacg 360  
tggtatacta ccaagcacgc gaagatgaag caagaagttt gaccagaaga agagtgaaga 420  
tgagatcacc aagttgcaag gagaagtatg ggagtc 456

<210> 4420

<211> 439

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-H6

<400> 4420

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gatccaagct acgccgcac ttactcgccg gcggccttgaa tcatggctga taggagaaac 180  
aggtgtaacc agatcctcct tttagcatac cagagttttg gcttagtggt tggagatttg 240  
agtattttct ctctctatgt gtataaatgt acattctacg gaggattgag acatcaccaa 300  
acagaagata cgatatttgg cgcgttttct ttgatatttt ggaccatcac tctcctttca 360  
ctcatcaagt acatggtttt tgtgttaaag tgcaagatga caatggtgaa aggagggatc 420  
ttggcttgga agccttgcc 439

<210> 4421

<211> 483

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-039-Q1-E1-H8

<400> 4421

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tgggtcacca atcatcagag caatgagttc cacatcagag gccgacgctg agagtgttct 180  
tagaacctgt acgccatcgc tcgatctcaa acgacacaaa ggccaagctg ggaagatagc 240  
tgtgattgga ggatgtcgtg aatacacagg agctccatac ttcgctgcca tttcaagctt 300  
tgaaaatcgg tgctgatttg tctcatgtat tctgcacgaa aagatgcagc tctgtttata 360  
aagaagctat agtctgagc ntatagttca ccttggttct tgaggaatca tatancatca 420  
gtcaactcaa ntgaagaaga taaaagagaa gttcaagata aatgcttggg anaagtcggt 480  
aaa 483

<210> 4422

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-040-Q1-E1-A1

<400> 4422

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tcgctccgcc gccagatcgc accagccgtc ggatggaata agcaaagtcg tatttgaggg 180  
acaagttaca gatgaagaag ttgagagctt gaanaagagg aagccttggt caaattacaa 240  
gatgaaagag atcacagggg gtggaatatt ctctgtgtat gaagaaaatg atgattctga 300  
gttagcaagt gctaattccg ccacanacgg caaatcaaga actttccagc aaccaccaag 360  
cagcaattat gagtcacatt tcatttgagg aagaaganat tgttacaccg aanaagccaa 420  
cgacggtgcc ana 433

<210> 4423

<211> 419

<212> DNA

<213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB22-040-Q1-E1-A10

<400> 4423

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ttcggaggga ttagcaagcg ttgattcntg gttatatcgc caaggtttca acnttgattc 120  
atggntgctt tctgatacct tctctcacga caacgatttg ctgcgaagag ctctccatac 180  
cacgcgcaca gncctcata ctctcactcc ttctctgct ttcttcgatt cctccgctgt 240  
ttctcaccct tcttccacta nacacactct cctctagcgt ctccggtgct tctgatccaa 300  
gaaatcatcn gcggaggagc taaacggaaa cgtaanngcc ttcttaccga cngtaaagcn 360  
gccaagcgcn gcgctcgtgc ttccaagaaa tctcagacta ctttcataac ggcngattc 419

<210> 4424  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-040-Q1-E1-A3

<400> 4424

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ttatggacct tacggnacca aatccggttt ccangatttc tgctccggaa gccaccggta 120  
aacagatctc cggtttcctt ggtaccancg gcaatgttct caacaccatc gacgttact 180  
attctcccat acctactgga ggaactggca ccggaggaaac nggcaccggn actggnaccg 240  
gaactggcac tggaactggn actggcaccg gaactggcac tggaantggc actggaactg 300  
gnaccggagg aactggcact ggaactggca ccggtactgg gaggaactgg cactggaact 360  
gngcaacgga ngaactggca ctggncaccg gcactgggga ctggcaatgg gaacccggca 420  
ctgggantgg gca 433

<210> 4425  
<211> 501  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-040-Q1-E1-A5

<400> 4425

actgttggcc cntgcaggta caatccggaa ttccccgggtc gacccacgcn tccgaggacg 60  
cgtgggtctc actaccacga gctcttcac tccacttcct tctccgacaa cgcttcngtc 120  
gctctaaacc tccacaccct cagcgccgc cctcatgtag ccggtacagt ggccaacgct 180  
gaagcagcgg aatatgttcg ctctgttttc acctcctctg ctctcaaate acacgtcgtt 240  
gcttaccaag tgtctctaac ttaccagtt catcgctctt tgggtactaac gccgacagac 300  
tctgcaaagc caatcacttt cttgctggaa caagaaaaac tcggagacaa tccttatgct 360  
aatgaagtga tgccactttt tcatggatac gctaagtcag gtaacgtttc aggtccagtg 420  
gtttatgcaa actatggacg agtggaagat ttcgtgagac tcaaagaaag atatgggcgt 480  
taatggtctc cgggagcccg t 501

<210> 4426

<211> 439

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-040-Q1-E1-A9

<400> 4426

acgatcgtcg aatcgtctat ancacttggc tcagtnatac agtcagatan agacaggaga 60  
tcaatactca acagtcaagt tgcaagggcg tttagtantt ctactgctgt tgangangca 120  
tcaatatctc acattccagt gctctcaggg tttantgtcc ccaaattagt tctacaagtg 180  
gtgtctgttg attcantttt ccggataaca agtccaagct ttaatgagct tgtcattctc 240  
aaggatactg ctttttctgt anacaataaa gctatganaa tttcacnagg aatgcctaata 300  
gatgcatttt tctcatcatc gttaccangc agattgtctt cagcgtngac accantgaac 360  
tctatttcaa ggaacctgga aaaaactgcg gtgggntccn cgaaatgnca aggttctacn 420  
catccaaaga agatgggtg 439

<210> 4427

<211> 479

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-040-Q1-E1-B1

<400> 4427

acgcgtccgn ccacacgtcc gccacgcgt ccganggaat tcaaacagtt tgatgagcta 60  
cgtattaaac ttggnccatt ctctctagcg ctttttgctt atggcaaagc taatggttta 120  
cttacaatga anganttcaa acgaagccgg ctctcaang tatgttgga atnacaatgn 180  
tccagacaaa tgttnatana aaattccgtt tcatgttggt ttgactccaa tcaagatggg 240  
gaaattnagt gtggatgact ttttgccgggt tctgcatcca aagaaanaag gaccttgcaa 300  
aagncaatth gcaaaaagga ttggccccgg tactcctcaa taatggatgg ggaaagggtc 360  
caaagaaact ggttcctcaa ccggggaaaa actcctcctt cctccttgg ggggcntaac 420  
cgatgaaact ccgaagacta ttttttgaag gtccttgggt tcaaacgaat tgagcccaa 479

<210> 4428

<211> 488

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-040-Q1-E1-B4

<400> 4428

ccttgcnngt accggtccgn aattcccggg ctcgtttctc taccggcgac gtaacctctc 60  
tgtctctgtt ctgttccttg cctgcncgag gtgtgcatct tcttggaatc agctgacttt 120  
gcggtcaatc ggatttcttg ggattgtttg gagaaacttt ggaggtgatg gacaacanna 180  
atgatcagga tattgatgtt agatcagtgg ttgaagctgt ttccgccgat ctttcctttg 240  
gtgctnccct ctatgtgggt tgaagaacat gtgcatgcgc tgccaacaaa atggaacaan 300  
cagattccta ttgaccttaa atccccaact caagnaaagg cntaataacc tgcaattgga 360  
tntccgcaat tnnngggaaa ggaataatga aattcaattc ccnaggcaaa atcnaaccn 420  
ttgaanncgg tannanccaa aaggtccaac ctgggaagtn aaaataattg acccgcaaat 480  
tntgaaaa 488

<210> 4429

<211> 449

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-040-Q1-E1-B5

<400> 4429

acgcgtccga agtagaagag attcgattct ccattatctt ccttctaaat gccttcctta 60  
atgttatctg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnng tgaancagcg attcaagctc gganaagang angagcagca nnaangttaa 300  
gttgggcntt gaggatgttg aagttgataa ccctaatacg gtttctaact ttcggatttc 360  
tncgcctttg agggataagc ttaaggcnaa ntggatttga agctcgtttc cncgangcaa 420  
gcttccangt tcggatatgg gtccccgaa 449

<210> 4430

<211> 415

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-039-Q1-E1-H10

<400> 4430

taacttcgca gactctgttg attagtcaac acagatcaga atctgaggct ttggccgaga 60  
cgagagaagc agaagaagaa aatggcggag actgtacatt ctccgatcgt tacttacgca 120  
tcgatgttat cgcttctcgc cttctgtcca cctttcgtca ttctcctatg gtacacaatg 180  
gttcatcagg atggttctgt tactcagacc tttggcttct tttgggagaa tggagttcaa 240  
ggacttatca acatatggcc aagaccact ttgattgctt ggaaaattat attttgctat 300  
ggagcatttg aagctattct tcagctgctt ctgcctggta aaagagttga gggccaata 360  
tctccaaccg gaaaccgacc agtttataaaa gggcaatggt cgggntgct taatt 415

<210> 4431

<211> 499

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-F4

<400> 4431

```
ctgtctcgta tgcctccgaa aattccaagg tcnacccacg cgteccgaacc atctctttct 60
ctctttctca aaatcttggt tattttttta ataaaacaaa gaaattaaaa agatgatggg 120
tacattagta ctaaagtagc tcctcgtgat agtcatgacc ttgatattaa gagtcctata 180
cgactccatt tgttgctact tcctcacacc aagacgaatc aagaagttta tggaacgtca 240
aggcatcacg gggcctaaac cccgtctcct caccggaaac atcattgata tctccaaaat 300
gctctctcac tccgcttcta acgactgctc ttccatccac cacaacatcg tcccacgcct 360
tcttctcat tacgtctctt ggtccaaaca atatgggaag agatttataa tgtggaacgg 420
gacaagaacc gagactatgc ctaacgggag accgagatga ttaaagaant ggctaacgaa 480
gcacaatccg ggtcaccgg 499
```

<210> 4432  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-F5

<400> 4432

```
ctgtcnacgc ctgcccgtaa cggteccgaaa attcccgggt cnacccacgc gtccggaatt 60
gatctaagag gaattgatcc aacatgggta acacagataa gctgatgaat cagatattcg 120
atttgaaatt tacgtcaaag tctctgcaaa ggcaatcaag gaagtgtgag aaggaagaga 180
aagcagagaa attgaagggt aagaaggcta tcgagaaggg taatatggat ggtgctcgga 240
tctacgctga gaacgccatt cgtaagcgta gcgagcagat gaactatctc cgtctcgctt 300
ctcgcttga cgctgttggt gctcgtcntg atactcangc taagatgacc accatcacca 360
aatccatgac caatatcgtc aatcccttg agtcntctct tgccacaagg aatctacaga 420
agatgtcaga gacaatggnt tcaatcnaga aacaatttgt gaacatngag gtccaanctg 480
agttcaaggg gnaaaggca 499
```

<210> 4433

<211> 444  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-F8

<400> 4433

```
acgcgtccg ttttttttta ccggtcaccg gtttatggaa tgactgatta ccggctacaa 60
ccaacgatga atcttttgac caccgacgac aacgcttcta tgatggaagc tttcatgagc 120
tcttccgata tctcaacttt atggcctccg gcgtcgacga caaccaacgac ggcgacgact 180
gaaacaactc cgacgccggc gatggagatt ccggcacagg cgggatttaa tcaagagact 240
cttcagcaac gtttacaagc tttgattgaa ggaacacacg aaggttggac ctacgctata 300
ttctggcaac cgtcgtatga tttctccggc gcctccgtgc tcggatgggg agatggttat 360
taciaaaggc aagaagataa agcaaaccgc agacgggaga tngaattcgc cgccgttttc 420
nactcccggg gggttaagga gtnc 444
```

<210> 4434  
<211> 497  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-G1

<400> 4434

```
ttaccctgnc gtaccgctcc gaaattccca ggtcgacca cgcgtccgca aaaccccaaa 60
ctctctctac gaaggcggat gcaagcttct ctgtctccct ccaactctga gtctcgtccc 120
ctctgtgtgt gattatcttc tttggtgttg ttgatgctgg agatctctta ttcagattga 180
tcacgcctga aaggtttatt aggatttggc aaaggatgga tagaatcaac ggtctatcag 240
atctcttctg atttgaattc tagggcgttt gtttggaaga atcattgctt ctttggttga 300
ggatctttgt gaaacgctgg gattttgtgt tctagacttc tagggttttt gaagcaagct 360
gtagcataag gaaaattttg agaatgaaag gtgaaagaga agttaagaat ggtgtttctg 420
aagaagaaga gagaagtga agaggaagag agtgatggga acggtccgaa tcaacaactc 480
caacaactaa ggttnaa 497
```

<210> 4435  
 <211> 393  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-G10

<400> 4435

gacaactatg gcatgaagtt gagttgggaa gagcagtttc tgtcagaaat tctagatcaa 60  
 aaggacctaa agataagcca attaggtgtg gtgaaacaga ggctaaagca taagaaagta 120  
 cttatcgttc ttgatgatgt ggataatcta gagctattaa agacttttagt gggacaaacc 180  
 ggggtggtttg gacctggaag cagaattatc gtgaccactc aagataggat ccttctcaag 240  
 tctcacaaga ttgatcatat ttatgaggtg gggtagccat cgagaaaatt ggctcttcgg 300  
 attttatgtc gatctgcttt cgacagaaac tccccacctg atggtttcat gcaacttgca 360  
 aatgaagtta canagcttgt tggtaatcct cct 393

<210> 4436  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-G12

<400> 4436

caagtcgtct ttgttccctt attgatagaa taatcaaaaa tccgagtcgg agacgacgaa 60  
 gacccgagtt ccagctatta actatgcaga taccatcaag agagcatagt ttcattctat 120  
 ttctcttcat atctgctttt gtaattggtg ctgctgtctgt acctgtacct gattctaatt 180  
 gctacgctct cgacaattca agtcgtcttg tcgattttag cagctggatc ggtcatccat 240  
 ttgaatatga tggcaaggaa tttgatttgg tggtagatt ttgcaaggat gtggaaacaa 300  
 gagggcaggc gggatatgtt gattttggga cgatttgacc cgtaagcta ctttgtttct 360  
 agttctgaaa atttcgattt cgtgcaaggg ttttaccatg ggcgaaactgt caaa 414

<210> 4437  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-G2

<400> 4437

tgtncgtacg ccccgaaatt cccaggtcga cccacgcgtc cgcaaaactt gctcttggtg 60  
 gaaaaggatt gacatttgac agcgggtggct acaacattaa aaccgggect ggctgcttaa 120  
 ttgagctcat gaaattcgat atgggaggtt cagctgctgt tcttggcgct gcaaaagcca 180  
 ttggtcaa at taagcctcca ggtgttgagg tgcactttat tgtcgcagct tgtgagaata 240  
 tgataagtgg tactggaatg agacctggag atgtcctcac agcctcaaac ggaaagacga 300  
 ttgaggtcaa caacaccgat gctgaaggct gactaacact tgcagatgct ttagtttatg 360  
 cttgcaacca ggggtgctgat aagggtgttg accttgcaac attgactggg gcttgtatta 420  
 atgctccttg gnacatcaat ggcaagcata tatacaccta atgataaacc ttgcaaaagg 480  
 angtg 485

<210> 4438  
 <211> 501  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-G3

<400> 4438

ctgtntacgc ctgttcggta ccgctccaaa attcccaggt ccacccacgc gtccgcnttt 60  
 tancacnca taggtcagcg aancgtgagc gggcgcgagg aaggaaaggc caaacacttc 120  
 ggccgaacgg gaatgagcaa cgacgaaatg acaagatgag gtgctccggg cccccccatt 180  
 tanatttaga aagaagggtc gaaggttttg ggcctctagc tttccccgct cccctgagt 240  
 tgggtggtgc ttgtgtgggg ggcgtgccac cagaaatcgg gcttgaagct ctgccttac 300  
 caangagccg acagctgatg gctatggctg ttggtcacga ctactaccaa aaggttccaa 360  
 tgaagatgaa tatttcacat ggaagagtgt gcatctgtat gttgggtgtt ctctgtcgtg 420  
 cgacccggcg gcttatgttc nacctgtggc ccangcctcc taattgttca aggcggcngc 480  
 ttnaactccg aatccattcg g 501



<210> 4439  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-G5

<400> 4439

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acgcgtccgc atttttctct ctctacctaa ccaatcctaa gctcatctct ctatctccaa 60
tggagtcgcgc cgcactatcc cgaatcgggc tcgccggact cgccgtgatg ggccaaaacc 120
tcgccttaaa catcgccgag aaaggtttcc caatctcagt ctacaatcga accacttcca 180
aagtcgacga aaccctagat cgagccggcc tcgaaggaaa cctcccagtc tccggccaat 240
actctccccg cgatttcgtc ctctcgatcc aacggcctag atctctcatc atcctcgtca 300
aagctggagc tcccgttgac caaacaatcg acgccttctc cgaatacatg gagccaagga 360
gattgcatca tcgacggtgg aaacgaatgg tatcaagaac acagagcgac gggntntccga 420
agctgaacaa aaaagggtg 440
```

<210> 4440  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-G6

<400> 4440

```
cggttaanggt ccaaaattcc cgggtcgacc cagcgtccg cccacgcgtc cggtgatttg 60
agtattgtag agtgaaaaca aaggcagagt ctgctgcacc tgttcacgt cctgtccac 120
tttctaagct aactgatagc ttcttagatg gaacaagcag tgtgtatcta gaggagttac 180
aaagagcttg ggaggctgat cccaacagtg ttgatgagtc gtgggataac ttttttagga 240
atthttgtggg tcaggcttct acatcgctg gtatctcggg gcaaaccatt caagaaagca 300
tgcgtttgtt gttgctagtt agagcttacc aggttaatgg ccacatgaag gccaaagctg 360
atcctttagg tctaagagaa gagagagatt ccagaggatc tcacgccaag tctttaaggg 420
tttactgagg ctgatcttga tcgggaaatc cttccgggtg tatgaagatn tcggttttcc 480
```

<210> 4441  
 <211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-G7

<400> 4441

```
acgcgtccgt agctctctca cttcagcttt ccaattaaag ggaacaaagc ttgattttt 60
gccgcagtca gaagcattac ttgcaagaa caagtgtgta aacaaagatg aggagctccc 120
aaaacggcgg cgcaatgggt ggacgagctg ccggaaccgg cgaggaggga ccgtcggctc 180
cagttgacaa agaagttgac tacgctcagt acttctgtac ttactccttc ctataccacc 240
agaaggatat gcncctccgac cgtgtccgta tggatgctta cttnaacgcc gtcttcnaga 300
acaaacanca ctttgagggc anaacngttt tagacntggg caccgggant ggaattcttg 360
caatttggn c agctcaagct ggtgcnagna aggtttatgc ccgttgaacc tactaanatg 420
gctgatcaag ccncgtgccc ttgtcaaagc ca 452
```

<210> 4442  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-G8

<400> 4442

```
cgccgccggt aaggtccaaa attccccgggc ngtgagggtg aggaancaga gtgaagagaa 60
agatagagag ataagaagaa gccatggggt cgatttcgat gcacataact ccctctactg 120
ctctccctat acgccatttc agagctagag tctcttggtg ctcttctggg catgtatcat 180
ttatcaaaga tgttgctgcc actgaacctc caatgcatct tcatcactta ctcaaagtgc 240
ttcaaacaag aggtgagaca atcatatctc ctggagctaa gcagggactg atccctcttg 300
ctattccgct ttcgaagaat tcgtcaggct ctgttactgc gcttttgaga tggcctactg 360
ctccaccaag gaatggatat gccggttggt gaagtttgga ggagtggagt cangcttata 420
nctagaaatg tnaaatgaat acattcaccg ggattccaat ttgaagaaga tgcacaagag 480
tttgnaagaa c 491
```

<210> 4443  
 <211> 391  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-H1

<400> 4443

```
ctccanaaat tcccaaggtc caccacgcg tccgcangaa ggggtggtcg agtggaccgg 60
gacttttgcg ttgaacactc tgacttacag agagtattcg aacacaggag caggggctgg 120
aactgcaa at agagtgaagt ggaggggctt taaggtaatt acggctgctg ctgaagctca 180
aaaatatacg gctggtcagt ttattggtgg tggaggctgg ttatcgtcga ccggtttccc 240
cttctcgctc ggtctttgag agattgttgt gtaatgtgtt cctacgtatt gttggctaca 300
aaaattattg attaattattg tatgaagcaa atcgtgttgt cctctttggt ttgtttgggt 360
tgtgtacttt ctctaaaaaa aaaaaaaaag g 391
```

<210> 4444  
 <211> 505  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-F3

<400> 4444

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ctgttacgcc tgnccgtacg cctccgaaaa ttcccaaggt cnaccacgc gtccgcctta 60
ttttgagttc ggattaaatc tgcacgcga tttggtccaa tatctcctag catcgagaga 120
tttctattct ggctaaattt tgtgttttct caggtggata agaaattttc tctttgtcgt 180
tttctcgcg at aattttcgga ttacggcgac gaatcagatt gttttttggt ttcaaatttt 240
ctgatatttc caaaaaaaca aaaaaatctg atttttgaga aaaaagcaat gcaacggatc 300
gtggacaacg ctctcgctgt aaccaaagaa tcagtaaaaa ctgttacata tgagtctttg 360
aataacattg cgagggtgat aaatgggagt atcagctctt ctgttgacct ttctcccaag 420
gaaggcta at attcttgaan ggcttacatg gctggggaac tcaagcctac gtttcgtggg 480
accacgttta acaacgggtg ggtnc 505
```

<210> 4445  
 <211> 502  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-C2

<400> 4445

```
aactgttacc ctgccgtacn gctccgaaat tcccaggtcg acccacgcgt ccggtcggtt 60
cttccgtaac gcagagctag agaaaacatt ggatcaagac ttgtctaggt tatatccaga 120
gcattggagt tactttcaag ctcttgatg tcaaggcatg ttaaggcgta ttctactctt 180
gtggtgcctt aaacatcccg agtacgggta tcgacaaggg atgcatgagc ttttggcgcc 240
actgctttat gtacttcatg ttgatgttga tcgtctctct gaagtgcgta aaagttatga 300
agatcatttc atagacagat tcgatgggtt atcttttgaa gaaagagata ttacttacia 360
ctttgaattc aaaaagtttc tgggaggatt tcacggatga tgagattggt ggtattcang 420
ggaattcaaa gaaaataaag agtctagatg agctcnattc cgaaatcaat ccaaattgtga 480
anggttaagt taatgcctaa tg 502
```

<210> 4446  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-C4

<400> 4446

```
cgtagcctcc aaaattccan ggtccaccca ccntccggn acaaggaaag gaaagancag 60
gaattgaggg cncttgcca aaaanctcgc tccgaaagaa ccggtgctgc tatgantatn 120
cctgtctcat ctgacagggg taggantgaa agtggtgacc caagaggtga ttatgacaac 180
tatgaccagg atagaggaag ggaaagagaa agggaagagc ctcaagagac gagggannnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnaangt tggatgcaa agatgctgcc atggggaaga agagcatatc accagagaca 360
gagaccgtga catcagttag aaagttgctc ttggaatggc atctactgga aggaaaaggt 420
```

gtggtgaagt tatgtatgat naacgtccgt ttaaccaaga caaagggatt ggctccnggt 480  
 ttccccg 486

<210> 4447  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-C7

<400> 4447

acaactgtcn acgcctgccc gtaacggtcc aaaaattccc gggctcgtct ccctccatcn 60  
 tgctatggat cgtcaagccg gagagggaga atgatgaact accatctccg gcgataatth 120  
 ccgaccgant tctggtaaat ggtgttgtca ccccggttaac gttgaccgcc gagggaaagc 180  
 tacnatchac ggaatctgga cggcggaat cnacnttggc aaaagaaatc ctgantttcg 240  
 tcgtggaagg taacaagggt agagtaaaga ccttggttga gaaaggagga ggaatttgct 300  
 gttaaaggaan tgctgganat tatncaagga acgatttcgt tttcgagcct ctctctgatg 360  
 aatctagaaa gctttggtcc gataagttcc atcaacacct cgtctctctc ggtcgggcaa 420  
 agaaattgct gtgtttgtga aaccgtttgg cggggaanaa aacancgaga angatatthc 480  
 aagaggaag taaancccat 500

<210> 4448  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-C9

<400> 4448

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 gaaacaatgg cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nngctttgga tccttcgttt cttcgtcttt cgacctctct ccaaagaagt 180  
 agctttctct aagattttcg gtttggtgca gcttcgagt cttatcagag tgaaggagca 240  
 gccaacgttg atggaagaga accaagcata tgggatacgt ttactaaaca atatccagaa 300

aagatttcag atggtagcaa tggcgacgtt gcagacgaat tttattaccg tttcaaggag 360  
gacgtggcac atatgaaaga aatagggctg gactcattta ggttttcgat ttcttggtcc 420  
anaatactac ctcgangtac ggttgctgga gga 453

<210> 4449  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-039-Q1-E1-D11  
<400> 4449

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atctccgcc a cgtgtttctc tctttttgtc tcctttcttc ttctccctaa tcttaattctc 120  
agaaaccaac aacatcagta gtcagtaccc ccacacacac agagagaccc tttttcgatt 180  
ctccactttc tcataaaagga acgatttttc gagatgtggg tcagtgttga tttctctcct 240  
cttggttat gagtttcgaa ttccgaatctc aaactaaaaa gctttttgaa acaagcaaca 300  
aatgttactg acacctaaga tgtttaagtt cttggcttcg acaagatgtg aagaagatcc 360  
tcaaacgcaa agacagtgat gctggtgaac gaagaaaaag cattggggagg actt 414

<210> 4450  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-D3  
<400> 4450

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attatggagg taccggtgat taatagaata agagatttcg aagttggtat aaactcgatt 180  
aatgatcctt cgtttctttc tcgatctgtt gctgtttccg gaatcggaag gctacaccaa 240  
gcttatggtt tttggaaatg gggagctttg attatcgcat ttctagctta tttcaccaac 300  
tttgtagta aactcaacag tctagttgtt aggttaagaa aaatagatgt ctctgtttcc 360

tctccaactc tttttgatga ttacgatagc gattccgatg tttcttggtc ctctaacgtc 420  
 tcctctgacg atgaaaaaga cgaagaagat gaaggctgat gatgaaagaa tganggatgt 480  
 tgactcnatt cttaaacc 498

<210> 4451  
 <211> 502  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-D4  
 <400> 4451

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 accaaagttt gtgttgccgg agacattcga cggcgtgagg atggagatca caggccaact 180  
 aggcattgat tgggagcttg taaaagcacc agtgattgtc cctcttcttc aattagctgt 240  
 ttacatctgt ttgcttatgt ctgtcatgct tttatgtgag agggtttaca tgggaatcgt 300  
 catcgtcctc gtcaaaactct tctggaaaaa accagacaaa cgttacaagt tcgagcccat 360  
 tcacgatgat gaagagcttg gtaagctcca atttccccgt cgtcctcgta caaatcccca 420  
 tgttcaacga acgagaggtt tataagctat caataagagc ggcgtgtgga cttcctggcc 480  
 gtccgattgt ctctgaatc aa 502

<210> 4452  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-D8  
 <400> 4452

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 aaaaagagct ctgctttgag atcttagcca ttaagttctc ttgatgatgt ctggttcaag 120  
 attagcctct agactaataa taatcttctc aataatctcc acatctttct tcaccgttga 180  
 atcgattcga ctattccctg attcattcga cgatgcattc tcagatttaa tggaagctcc 240

agcatatcaa aacgggtcttg attgctctgt tttagccaaa aacagactct tgtttagcttg 300  
 tgatccatca gctgttcata tagctatgac tctagatcca gcttacttgc gtggcacggt 360  
 atctgcagta cattccatcc tcaaacacac ttcttgccct gaaaacatct tcttccactt 420  
 cattgcttcg ggggtacaagt caggggtccc tcgccaagaa cctancctcn gtttttcctt 480  
 ccttgagttt caaagtcca 499

<210> 4453  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-039-Q1-E1-E12  
 <400> 4453

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 ttgatagttt gcgtactagg agtctgtgaa agcttgaca ggaagaaagc aaatcgggaa 120  
 agaaaggaat ctgaatcgga gaagcaatcg aggtttacga ttaccaaatt ctgatctaatt 180  
 ctgattaatt gtggtgattt ccgatggaag aagacggtgg tggcggcggt gcgaaagttg 240  
 gaatgctgga gaatttcattg aagacgcattc agagttcttt gaaatcggtt ttccagagaa 300  
 agaaatcatt ctctggctgt gatggagatg cttctccgtc gcctatcgct tccccgaaac 360  
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<210> 4454  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-E3  
 <400> 4454

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 tatacaaacc tttctcaatt cttcttgaca ttagggtttc ctctttcttt gagagggcta 120  
 aaaccctaatt atatccctct cattgactaa agagttaagc ctactctatc tactttggaa 180  
 gcgaaattca aagggttaagg naaaagccct tgaaagagga agaaagatac aagatcctca 240  
 aagaacctaa agatctaaag gntgtaagaa gaaaaacaaa tggngtcgtc atcaaactca 300



tacaactcac catgcgcggc gtgcaagttt cttegccggg aatgcatgcc gggatgcata 360  
 ttcgcgccat attttccacc ggaggagcca cacaaattcg ccaaagtcca caaaatcttt 420  
 gggngcaagc aacgtnaacg aaagctcctc aannnagntc ctccctcanc aangttgaaa 480  
 gangcagttc aactccctta 500

<210> 4455  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-E7  
 <400> 4455

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngt attgccgtgt gatactgtag 300  
 attgtttcac ctttgaagca acaccttcaa gagtcaaadc cttttctttc ttattcatct 360  
 tcccttcttt ttcggtatat tataaacact tttgaaaatg ggatcacaac atttcctatg 420  
 gtgtancaat tgtgaacaaa gaatcagcta g 451

<210> 4456  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-039-Q1-E1-E9  
 <400> 4456

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 tgtatctccc aaacaagttg aggtagagta tgcagatgga accaagttca atttttcatc 120  
 agagtttctg agaattcata gtccagctgc tgatggaaaa gtcagatcaa tcggtggtga 180  
 aaaggtgata tctggaaggc ggtatgtagg aatcatgtct gcagaaccgg ttggaaacta 240

cggggtaagg tacttacaaa tactgcaagg tcattatgag ttagccatca tgaagattca 300  
gatacctaag tttattgttt tgcttataac ttaatgcggt tgggggctaa atcttttttg 360  
aggattcaag ttagtgtttg atgacntgca tanaacaagg atatatccat g 411

<210> 4457  
<211> 500  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-F2  
<400> 4457

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caccaacaaa acaaaaaaaaa gggtttgatc aaagagatca ctgttaaacc ctcacaaaat 120  
ttcctcagga ctaataatct gcgatcgatc gtcgttatga taagtctcta aagaagattg 180  
atgattctgg attacattat catgggagga gcttgttcaa ggaagagaga tcaacaagtt 240  
gaggatattt taaacagagg tgtctctgga aaatatagca agagttcaag ttcgaaatgg 300  
ttagctactt cgctctctag gtctggctcc gatgttaaac ggaagaatgg agaatgcccc 360  
tcgcttatgg gagctctgtg tccgcaagat acaggaggac attgataaga tataccaagt 420  
tctctgacct anctagagat atcagtcagc agatttttga tgaatggnta atcccaagag 480  
gttaccttta aagttcccctg 500

<210> 4458  
<211> 416  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-C12  
<400> 4458

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gtttcaaatg aagttccaaa gcaaccctg gttgatgacg atgagaatga tgaaaaaat 120  
tctgaaaaat atggtctcgc ttctggcttc tccatcaata agaaacggaa aaatgtagtg 180  
ggtactacta agaagagtaa gaagaaaaaa ggtaacaata atgctggcga ttcactctgac 240

cctgactctg gtactctagc aaaagttggg tggttcagag ttgtactaga tgaagctcaa 300  
acaattaaga atcatagaac ccaggtggca agagcatgtt gcggtcttcg aagccaaaag 360  
gangtggtgt ttgtctggaa caccaatata aaatacaata gaatgattta tacaag 416

<210> 4459  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-037-Q1-E1-B4  
<400> 4459

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caagganaga gttaacccan anaacagagc aatcctctaa aaaatctcaa gaancctcac 120  
taaaatgggg ttcaacggca gagacacaat taactccggt gcaagtcacc gacgacgaan 180  
ctgccctctt cgccatgcaa ctagccagtg cttccgttct tccgatggct ttaaaatccg 240  
ccttagagct tgaccttctt gagattatgg ccaagaatgg ttctcccatg tctcctaccg 300  
agategcttc taaacttccg accaaaaatc ctgaagctcc ggtcatgctc gaccgtatcc 360  
tccgtcttct tacgtcntan tccgtcttaa cctgctccan ccgtaaactt tccggtgatg 420  
gcgttgaacn gatttacggg cttgggtccg tttgcaaagt atttgaccnn naaccgaaga 480  
tgggtgttcc antgg 495

<210> 4460  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-037-Q1-E1-B6  
<400> 4460

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aatggctcca agcttatttc cttgtgcttg atgatattat ggataactct gtcactcgcc 180  
gtggtcaacc ttgctggttc agagttcctc aggttggtat ggttgccatc aatgatggga 240

ttctacttcg caatcacatc cacaggattc tcaaaaagca tttccgtgat aagccttact 300  
atggtgacct tgttgatttg tttaatgagg ttgagttgca aacagcttgt ggccagatga 360  
tagatttgat caccaccttt gaaggagana aggatttggn cangtactca ttgtcaatnn 420  
acngtcntat tgtccagtac aaaaa 445

<210> 4461  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-037-Q1-E1-C3

<400> 4461

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tccgcctcga agcaaggact tttccccaag ttgctggagt tgttgtttcc ctgctagcaa 180  
gaagaagaat attcctgaag aaaaccgagc tctgcgtatg agtgattatg atgacgaaga 240  
gatgaatctc tctctagtcc cgaagaagtt cggtaactca acattcctca ttgattcaat 300  
tcccgttgct gatttccaag gccggcctct cgcggaccac cctgcgggta aaaacggggc 360  
gtccaccggg tgcactcacc attcctcgag aacttcttga tgcactgact gtagcagaag 420  
ccatttgctg ttatctcttg ctggtacgan gataaaactg angtggggat nacgtnatcg 480  
gatggattta acnggtta 498

<210> 4462  
<211> 422  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-037-Q1-E1-C4

<400> 4462

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caagctgaaa tttatggaat tgaagacgaa aaggacacac cgtttcatca ttacaagat 180

tgaggagctg canaaacaag tgattgttga gaaaatcggg gaaccggggtc aaacccatga 240  
 ggaccttgct gcaagtcttc cagctgatga atgccgctat gccattttcg attttgatgtt 300  
 tgtcaattct ganggtgtcc caaggagcan gatttttttc gtggcatggt ctccggacac 360  
 agcaagagtg agaagcaagg atgatctatg cgagctccaa ggacagggtc aaganagaaa 420  
 ct 422

<210> 4463  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-C8

<400> 4463  
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 cgtgtccaac ttgggtccct ctctctctga aattactcaa tcatggggat ttgcttgagt 180  
 gctcagggtca aagctgagag ctccaggagcg agtacgaagt atgacgccaa agatatagga 240  
 agtcttgagg gcaaggcttc gtctgtgtct gtaagaccaa gccctcgaac tgagggtgag 300  
 atcttacagt ctccaaatct caagagtttt agctttgctg agcttaaadc agcaaccaag 360  
 gaattttaga ccagacagtg tgcttggtga aggtggattc cgttgtgttt tcaaanggat 420  
 ggattga 427

<210> 4464  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-D12

<400> 4464  
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 caggactttt gtgttgccgt cgatgacgct agtgggtgtt tcgtgaatgg aaaattctgc 180

aaagacccaa aatacgtnaa agctgaagac ttttttactt ccggactaaa catcgccgga 240  
aacacaataa accgcgttgg ctccaacgtt acaaacgtta acgttgacaa aatccctgga 300  
ctcaacaccc tcggagtgtc tcttggtccga attgactttg ccccgaggagg tcaaaacccg 360  
ccacacacgc acccaccgagc cactgagatc ctcgtgggtt gtcgaaggaa caactcctta 420  
g 421

<210> 4465  
<211> 502  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-037-Q1-E1-D2

<400> 4465  
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ttggcttaca aattcttctt tacatctaaa aagcagcgtt actatctccc tccctctcca 180  
tcttactctc tccaatcct cggccaccac ctctcatca aaccgccggt tcaacgtctc 240  
ttccaccgcc ttccaatat ccatggccca atcttctacc tccgacttgg ttccccgccg 300  
tgccgtcgtc atatcttctt cctcgtcggg caagagaatg cttcacaggt caaaacgatg 360  
tcattgtatc aaaccgccct cgttttctaa cctccaaata cattgcttac aactacacan 420  
ccatcggaac aacatcttac ggtgaccact ggcgtaacct ccgccgcatt tgctcncctg 480  
aaatcgtctc ctcaaaaacg tc 502

<210> 4466  
<211> 449  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-037-Q1-E1-D4

<400> 4466  
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tttggataaa atcataatct cctcttcaat tttcttgtga aatggaagtt tcagtgattg 180  
 gaaatcctca agcgaggatc tgcagagcag aattagctta cagagagctt ggatttagat 240  
 ttggctctga tgtaatctcc ggtgaatcga gaaatagggt tagtttctgc aaccaaagct 300  
 ctaaattggaa agagatcgcg atacgttgct cttcgagatc tgtcaaattgt gaagccatcc 360  
 gtctccgatg acgcttctcc gtttctcaaa tccaactcca aaatctaaat cgctcgagaa 420  
 gtgtaaaaat aattgttggg cctcccggt 449

<210> 4467  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-D7

<400> 4467

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 atcagtccaa gacagcgatc gagcttacgt gacgtttctt gctggaaacg gtgattacgt 180  
 gaaaggagtc gttggtttag ccaaagggtt aaggaaagtc aaatcggctt atccactcgt 240  
 agtancgatg ttacccgacg tcncggagga acaccgtcgt atacttgtgg atcaaggatg 300  
 catcgtccgt gaaatcgaa ccccgtttac ccaccccgag aaccaaactc agttcgccat 360  
 gggcttanna cgtnatcnac nnacgncgaa cnccgatatc ggaagttttg tggaagtan 419

<210> 4468  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-E10

<400> 4468

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 acttccttcc attcaaccct gtggataaga gaactgcttt gacttacatc gactctgatg 180

gtaactggca cagagtcagc aaaggtgctc ccgagcagat ccttgacctt gccaatgcca 240  
 ggctgacct taggaagaag gtactctctt gtattgacaa gtacgctgag cgcggtctta 300  
 ggtcgttggc agtagctcgt caggtggtac ccgangaaaa caaaagaaag ccaggtgga 360  
 ccatgggaat ttgttggtt gtttgctctt ttttgacctt ccaagacacg acagtgcnn 420  
 agncattcnt tagggcggtt gaancctaag gtgtttaatg ntgaaagat 469

<210> 4469  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-E11

<400> 4469

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 acatacggcc gttcaattcc accgtccgac gagacttggt accctctctc ctctctctcc 180  
 ggcgacgcct ttgagtatca ggcacctaatt ttctcttcta accacgattc ttctgcttat 240  
 gacgaccaag ctcttaaaac cgagtacagt agctatgcac gacccggacc cgttggtatct 300  
 ggatctgatt ttggccggga aacctaattc tggatatgga gggagaacgg aggttgagta 360  
 tggccggaat actgaatcgg ngcatggatt tgggctaatt ggtgggaang aatt 414

<210> 4470  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-F3

<400> 4470

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 gctttggtac nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt agttcgaacc 180  
 cttttggatt tgggtgtacaa agtgggtggt ccagcagacc gaatcagttc cagaatactt 240



ggtcacgaac ggcttctaca cctactgggtg gtgggtgctgc tgcttctaca cagcagactg 300  
 gtaaacagac gcagccggca gatcataaat gcacagatcc tgctgctgt aancggggta 360  
 atgcaagacg attttaagaa tgaagagacc catgtggaag ctcacatgct acggccactg 420  
 gaaataatTT ccatgtgatg tttaccgggt gatatcancc 460

<210> 4471  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-F9

<400> 4471

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 agcaaccaca agtgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn aagtggctcg tttggtacaa gcattcatag ttcnagccgc aattcttggt 180  
 ctggcagcac tggcttgtgt gtttggaaga ctatgcaacc gcggtggaaa gcaacacaaa 240  
 gacaaaaaca acaacaaagc ttcgaagcat nanaaaccat cgtcaaagaa gagccgtgag 300  
 attagacctg tggagcgtna accaanagaa agaggtgatg tggagtttgg tttcnatatg 360  
 aagcggcctg gtcctatgag caaaccact ggtcgaaacg gaggggacat agaatttggg 420  
 tttganaaca ngngaggang aagtgggtgt ggaggang 459

<210> 4472  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-B2

<400> 4472

ttaccctgcc gtnccggtcg aaaattccgg ggtcnaccaa cgcgttcnga tttgcaatnc 60  
 cttggttaan nagtggaaac naatcccccc aaantggccg tngatntcca aagttttgcn 120  
 aaatcccccg gggaacttta ctgaaatTTT ggagctantc atgtcntcgg atcctgacaa 180  
 aatgatgtcc aaagccgaca aaatgacaaa gctcacgctt actagatgga gtgctgattg 240

ggagaggtgc tactgagttg tatgagcaag cagcaaattg gtttagagca tcaaacaaat 300  
atgagaaaagc taaagtggct ctcgagaaaag cttcaaaagg acaagagatg caagcttctc 360  
cttgggatgc tgcaaagcat atggagtctg ctgctgcctt agcacagaag ctaagtattt 420  
ggnatgaagt tgctgatttt tataagaaaag gcgtcnggag ctgtatgttg aantgtggna 480  
agggcacaaa cccgcatcag atg 503

<210> 4473  
<211> 361  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-036-Q1-E1-E7

<400> 4473

aattattggt ttagacaaat atcttcagta ttatgtctca aaggcgaaat ctggctgcgg 60  
ctctcggact acgtacatgc ctacaatgcc tgcactcacc agatgtacaa cgggatcaaa 120  
attccaatgg aagaagaaaag aaaagacacc taccactcag aagagagaat ctcaggtttc 180  
ggttatgaac ggtgagaatt cttttggggg cacgcaaata tgtgtcagaa taaacagctt 240  
gcanaaaatc cgcagtgagc ttgatgttgt ggaaaaaaga gtgatcacac atttgaggaa 300  
ctgttgagtc agctcacacc cgaatgactt ttccaacggc ttagaaaaan aagttttgag 360  
c 361

<210> 4474  
<211> 324  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-036-Q1-E1-F12

<400> 4474

tcaggttcgt tttggtggtg accactcctt tattcaccta cggtgagatc ggcggcggag 60  
tctagacgac ggcgataacg ccggtgaccg acggaatcat gttaagatag tcaactggcga 120  
attcgttctt cttccccgga gacgacaagc atcgaagaat ctgttttagag acagctatgc 180  
ttgtctctgt ttctgcgttt tctctttccg atcttgtctc tcgngatccg gtgaagaagc 240

tgccgcgat cacatcttcc agtttccaag agattctaaa ncttttgtct tttgatcctt 300  
catcgaattc attgaggaga ttat 324

<210> 4475  
<211> 402  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-036-Q1-E1-F5

<400> 4475

tttcacaaaa tcaggttatt gttatctctg gagaaacagg ttgcggaag accacacaaa 60  
tcccgcagtt tattttagaa tccgagattg aagcaaaccg tggagctttt tccagtatca 120  
tatgtactca accaaggaga atatctgcta tgtctgtttc ggagaggggt gcttacgaga 180  
gaggagagca gttgggtgaa tctgttggat ataaagttcg attggaagggt gttaaaggaa 240  
gagatacccg cttactcttc tgcaccacag gcattttgtt gagacgcttg ttggtagata 300  
gaaatttaag aggagttact catgttatcg nggatgaaat tcangagcgt gggatgaatg 360  
agagatttcc gtcttatcag tcgtaaagga tctgcnatct cg 402

<210> 4476  
<211> 401  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-036-Q1-E1-F7

<400> 4476

atattgtag cattaaatta ggagacatta tcccagctga tgccgtcta cttgaagggtg 60  
atcctttaaa ggttgaccaa tctgctctaa ctggagagtc cttcctgta accaagcacc 120  
cgggtcaaga agttttctct ggttcaacct gcaaacaagg agaaatcgag gcggttggtta 180  
ttgccactgg ggttcatacc ttcttcggta aagctgctca cttgtggac agcactaanc 240  
aagttggaca tttccagaag gttcttacag ccattgggaa cttctgtatc tgttccattg 300  
ctatcgggtat ggtgattgaa gatcatccgt catgtatccg atccaacgcc ganagtacag 360  
agatggaatt gacaaacctt ttggctctcn tgatcgggtg t 401

<210> 4477  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-F9  
  
 <400> 4477

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 ctggtgccac tgttggtgaa ctttattaca ggattgcgga gaagagcaaa gtccatgggt 120  
 tccccggcggg tttgtgctcg agcttaggca taggaggaca cataacaggc ggtgcgtacg 180  
 gttccatgat gcggaaatat ggtctagggt cagacaatgt tctagacgca aagattgttg 240  
 atgccaacgg taaattactc gatagagccg cgatgggtga ggatacattt tgggctatta 300  
 gaggaggcgc tggangggag ttttgggata attctaacat ggaagatcaa gcttgttctt 360  
 gttcctaaga ccgtgaccgt ctttaccgtc accaaanacg ttacaacaag acntgggtaa 420  
 caagattatc tcaaagtggc aaagaattgc gggacaaact tgttgaanga gctatt 476

<210> 4478  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-G2  
  
 <400> 4478

ctgtttacgc ctgccggtac cngtccaaaa ttcccgggtc gacccacgcg tccgcttaac 60  
 tctaacggga gttaactaac gtcgacatta tgctagaggg agatgagaaa cagagccgag 120  
 ctctggattt caatcgactc gaggttttgt cattactagg tcgtggagct aaaggagttg 180  
 tgtttcttgt ccgcgacgac gacgctaaat tgcttgcttt aaaagttata cttaaggaag 240  
 ccatcgagga agaaaaagaa gggtagagaa agtgaagatg atgagtataa acgcgtgagt 300  
 ttcgaagcaa ggagtattaa gcagattcga ccatcctctc tttccgtctc ttcacggtgt 360  
 tttagctacc gataaagtca tcggttatgc gatcgattat tgtccgggac agaattctca 420  
 ttctttgagg aaaatgcaat cggaaagtat gttttccgac gagattatca ggtaaatttg 480

<210> 4479  
 <211> 396  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-G5

<400> 4479

aactcaaagc cctcgcttta ccgaagaaat aaaagaaata agtggtgatc atgggtcatc 60  
 taacaacaat ggtacttctt accaaactct tgatgagaaa ttcggtgagg acatcgagaa 120  
 tggcgataag ttctctggtt ctttggagaa aaaaccctg gttgggtcac atttgcctcc 180  
 tagtactcct tcaacaacag ctcttcacc tctcttggtt cttcctgagg tttctcacat 240  
 tggntggggt cattggttca ctctccgtga cttcaactc gcgactaatc atttctccaa 300  
 ggagaagtat catcggagat ggtgggttat ggagttggtt accatggaan ttgactaac 360  
 aanngcccct ggtggctgtc aaaaagttgc tcaaan 396

<210> 4480  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-036-Q1-E1-G8

<400> 4480

aaaaactcaa aactcaaac catctttgtg aaaaaaaaaat ggaaggaaga caatattacc 60  
 ctccgagaga aaacgttgaa ggaaacagaa ccaccatggg aggaggacct cactcaccgt 120  
 ggcattcacc ggttccttat ctctttggtg gtttagcagc gatgcttggg tcatagctt 180  
 ttgctcttct aatcctcgct tgctcttact ggcgtctctc cggttatcta gacggcgagg 240  
 aaaaccagag cagagagaga gatcttgaag tcggagatgt gaaacctgac aaaacggcgg 300  
 tgaagcctgt agctttgccg gagaagttct tgggtgattat ggccggaaat gtcaaacct 360  
 cttacttagc aacgccgtcg gtaaaaacgt gtacttgtga cgatgatgac gatgaaga 418

<210> 4481  
 <211> 421

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-G9  
 <400> 4481

acgcgtgggc ggagtccccg agagattgat caccatcact tttgtacctt ccttgtacta 60  
 cctatggcgt ctgctagctt cgttaagcct aacacnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngagtctc cttcgcgatc 180  
 cgcgccggtg cttactccga cgagcttggt aaaaccgcca aaagcattgc atccccctggg 240  
 agaggtatct tggcgatcga tgagtccaat gcaacctgtg ggaagaggct tgcttctatc 300  
 ggcttgata acaccgagga caaccgtcan gcctacaggc aacttctgcn taacaactcc 360  
 ctgggnctcg ggngattaca tctcngggtt ccaattctct tcgaaggaga ctctttaaca 420  
 a 421

<210> 4482  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-H12  
 <400> 4482

agatggctac gtcaggaaca tatgtgacgg aggttccttt gaaaggatna gcggatanac 60  
 actacaagcg gtggaggaat gagaaccacn ttttcccnna cgccatcggn caccacatcc 120  
 aaggtgtcac cgtccacgac ggcgaatggg actcccatgg agccctcaag atttggaact 180  
 acacattaga tgggaaaccg gagatgttca gggagaggag ananatagac gatgatnaac 240  
 atggcggtaa cgttcgttgg actanaaggt cacgtgatgg atcagcttaa antgtatgat 300  
 accattttac agttcattca aaagtcnccg gatnatatcg tttgcaagat cactatnacc 360  
 tngggataag cgagccggat gactcnctg aaaccaacaa ctacantaaa gggttgncca 420  
 ggtccccct 430

<210> 4483  
 <211> 415

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-H2  
 <400> 4483

acgcgtccgg ttataaggaa gatattcaac taatgaagaa tctaaacaca gacgcattca 60  
 gactctcaat cgcattgtca agaataatttc ctcatgggag aaaggagaag ggagtgaagtc 120  
 aagctggtgt gaaattctac cagcactga tcgatgagct ccttaaaaat ggtataattc 180  
 cgtttgtgac tgttttccat tgggacactc cacaagattt agaagacgaa tatggcggtt 240  
 tcttaagcga gaacattgtg aaagatttcc gagaatatgc agattatgtt ttcactgaat 300  
 acggtggaaa agtgaaaaac tggatcactt tcaacgagcc atgggtcttc gctcatgcag 360  
 gttacgacgt anngcaanaa ggcgccagga cgtttgttct cgctaacctt aanag 415

<210> 4484  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-H6  
 <400> 4484

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 acagaccagt ctttgctgtg gcttgtgtgc attcattgat cgggtttana tcttttcac 120  
 ggattttctt tgtcnagcaa gagccatgtc actganacc aacgctaaga cggagggttcg 180  
 ccggaacnga tacaangttg cagtggatgc ggaggaagga cgacggagga gagaagacaa 240  
 catggnatgag atccgtaaaa ncaagcgtga gganagtttg atgaanaaga gacgtgaagg 300  
 tatgcaagct cttcagggtt tcccttcage ttccgccgcc tccgtcgata anaagttgga 360  
 tagtcngaag gatatgggtc nctggggggt tnggtccgaa tgaccctgcc tttgcaagcn 420  
 tg 422

<210> 4485  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-037-Q1-E1-A4

<400> 4485

gttacgcctg ccgtttcggg tccgaaaatt cccgggtcaa acccacgcgt ccgaatggca 60  
gaggettcaa agtactttga gactactcca gaaacattca cctaaattct ttgggagact 120  
catttacttt cctttgaggt caatatgaga aaacanaagt ttctgcttgc attccaggct 180  
gtcaagcaat tgcttaaatt ggggtgcagag aaccctgatt cacatcgttc cttgggttaa 240  
ttcttttctca tgacagaatc gataagtgt ccaacgactg aangctgaga aacttcgttg 300  
gagggctcta gaggtgagc gcccatcaat cagtcaattg cagaataaat cactaatgga 360  
aagcaaacia agagttcttg ggaagacacg aagattcntt ggtgcacaga gctgcatatg 420  
caaaaaatgc ctgtaaaatt tagattccaa ncaaagaaaa cccgagggca nca 473

<210> 4486

<211> 494

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-037-Q1-E1-A5

<400> 4486

gccggtttcg gtcgcnagtn ccggnntaaa aattcccggg tcgaccacg cgtccgtgan 60  
tgtatttcgc taccagatga agttgtagaa acacaacacg tcaatacctc tggtgaatca 120  
gacacatctg cttatggaac agcatttgat gcatttggag ggggtgaaag tggaaaggaa 180  
gcttgccatg ctattgctgc attatgtgaa gtttgctcca ttgattcctt aatatcaaat 240  
tttatccttc ctttacaggg aagtaacgtg tcaggaaaag atggtcgtgt ccaactgctcc 300  
ctgaatatca aactgaaac tggacgttta tcggctagaa ggccaaattt gcagaaccaa 360  
cctgcattgg agaaagatcg gtacaaantc cgtcaggcct tcatancatc acctggaaat 420  
tcacttantg ttgctgatt atggacaact ggaacttagg gattctggca catcttgcta 480  
gttngcgaaa gcat 494

<210> 4487

<211> 421



<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-A7

<400> 4487

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acgcgctccgg ttgccgttag ccaggtgaga atccttaagc gcggcgaaga aatccccaag   60
gagacttcag atctggttgt ggaaatgtca gatctgggat ctactcgtcg gattggacca  120
gatccggggtt tgattccggg tcagatccgt ttatctggcc gcaaatcgaa atcagcaccg  180
ttttacgccg gtctctgtgac catgacctcg ccgcctccta gcgatgtccc gcttccagct  240
ttcttcacga agaaggcaac aaatgatctc atcaggatcc ttgcconaga catcgctga  300
cgggtgtctgt caccgatcat ttttgatttt ttaaaaatct cccgatgatc caaatgggta  360
ccaanagtgt tacatttccg tattaccgat cgtccgattc cgccctgaaa aacggggacat  420
n                                                                    421
```

<210> 4488  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-E10

<400> 4488

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tatgtcgatc agctgaagca gaggtgtgtt gaaggtttca aagaagggtg tttgagcatc  120
gagcagttag cttctgttga tggtttatgc gagtgggtgt tgaaggctat aggcgcatcg  180
gatccgggttc atacttacia tatcaatcta tcagttttca cttcgattcc tgatctctgg  240
gggattgatc agctgttccc tatagtccct atccataagc tcgatcaaag gcccggggct  300
cgcggaatcc tttcagattt aacgtgtgat agtgacggga agatcaaaa gttcataggc  360
ggtgaatcca gcttgccgtt gcacgagctg gacaaagaat ggcaatggan ggaaggtag  419
```

<210> 4489  
 <211> 505  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-035-Q1-E1-G6

<400> 4489

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gaactgttaa cctgncagcc gccggtaacg gtccagaatt cccgggtcga cccacgcgtc 60
cggatgaagg aagacancct ctctcaagaa agctacctat tcgttcaagc agaataaatc 120
cttacaggat gttaattctg tgtegcctcg cgattcttgg tcttttcttt cattatagaa 180
ttctccatcc agtcaatgat gcatatggat tatggttaac gtcagttata tgcgagatat 240
ggtttgcaat gtcttggatt cttgatcaat tccccaaatg gtatcctaan agaacgtgaa 300
acatacctcg atanactctc tctcaggtac gagaaggaaa ggaaaaccgt caggattagc 360
acctgttgat gtttttgtta agtacagtgg atccgttgaa agagccaccc ttgattacag 420
caaacacagt tctttccatt cctaacagtt tgattatcct gtggataagg ntgcgtgtta 480
tgtatcagac gatggtgcag ctatg 505
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<210> 4490  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-035-Q1-E1-H11

<400> 4490

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tctacagtct ccattcttgg atgggtttgc tctctgttcc tctcttcgct gccagtgagg 60
tgactggggt catgagcttc tggcatagan gagaagtacg gactacaaga accacgtttc 120
ttccctggca tgtattcctc ggactctata cctatgggtt aaccantgcc acagctgaga 180
ccggactgcn tgagaaactg angttccttc agaccaagag gaatgtcccc agacgcgggt 240
ctgaatcaat gactgtcaat ggtttagggc ttggcttggc tctacncggg ttgcattggt 300
ataactgctg ctattttggc aaagtatcan gngccattct cntgatnaga aactcgttta 360
attcaatcgc aangatngtc cnaaaatggt ggtccgcctt ggaggtttta gnntt 415
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<210> 4491  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-035-Q1-E1-H12

<400> 4491

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agaatcaccg aaaaatatca aggcaaagag tttcaaattt cgtgaattag caaccgctac 120  
aaatagtttc aggcaagagt tcttgatcgg agaaggaggg tttgggaggg tttacaaagg 180  
aaagatggag aagacaggac aggtaaaaat aaagtggtag ctgtgaagca acttgaccgt 240  
aatggattac aagggaatag agagtttctg gtagagatct tcaggttaag tcttcttcat 300  
catcccaacc ttgccaatct cattggatat tgccttgatg gagaccagag acttcttgtt 360  
cacgagttca tgccctcttg ttcccttgaa gatnatcccc ctaaagtgtg tantaggaca 420  
acaaccattg gattgggact ccccgattaa aggattgcct taagaac 467

<210> 4492  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-035-Q1-E1-H3

<400> 4492

acgcgtccgc gagaaagtcg gaatttttcc gagaaaattc aaaagggcga aaaaaagagc 60  
ttttgcgtac agttttcgaa ttggtctcct tcgtangggc aagctatggt tcaagagaac 120  
tatgaatgaa actgtggtgt aagagaatat naatggttgt tanctgctan aatgtttttt 180  
ggaccaagtg agtttgatgc tgatgaaatg gggttatgcaa tgagtagact tgagatagaa 240  
tccnatctat gtgatactgg aaaagacggt tgtggagttg gtantactan tgggtantcac 300  
angatcaagt gaacatttgg ctgatctaga ccattganat cagccacggt actaaattga 360  
aatcctagtc ctcatcaacg gtaaaaccct naaagtcccc tggggaagga gccngnccca 420  
anccatagcn gacaagtccc cngactgata cag 453

<210> 4493  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-035-Q1-E1-H5

<400> 4493

acgcgtccgn aaacactcat cgtttgtgct tcaaattggtt gaatgggcaa gatgggttgt 60  
gacctggcat ttgaaacca tgagcaaaga cggatcgctg atctgctctt ctgagccctt 120  
gtgcagtttc cegtctcagc cagaanactg tccgttttca tataagccta ntggtaacca 180  
agaaggacca agtctatgtg attgtaatcg aaaatgagaa natgactgtg caagagtttc 240  
ccgangaatt ctaccgtgtc ggacctgtta cgcatagcag gacccagggg agctcgagat 300  
ggtcaatgta cagcatcccg ggcaaaggaa gacctaaaggc caangactta accnagacac 360  
ctgtaagntg atctgaaatg caagctnaaa gatggggaga tgtggtggag cctgatccaa 420  
tccttg 426

<210> 4494  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-035-Q1-E1-H8

<400> 4494

tggatttggt tcaacnaatg gtggttttan aatatcaatg atagggtgta aaatcttttt 60  
cctggccaca ntatatgcat tgntcggatg tccactctct tatgtacnat ggtacaggcc 120  
actctaccga gccatgagga ctgacagtgc tttgaanttt ggttggtttt tcttcaccta 180  
cttgattcac attggcttcg gcacgtttgc tgccatcncc cctccaatct ttttccatgg 240  
aaaatcatta angtaagtct tccaataata gcccnacgtt tctacttgcg tttgagtgtg 300  
ctcttacttc anatgtagtt ggtaagtct ggtgagggct tcaattgggn aagttcctaa 360  
aattggtctg anacggttna ttaanaattc antttgttac aaaattaatg acgattaagg 420  
acctacaagt tggaagtgag aatcct 446

<210> 4495  
<211> 442  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-036-Q1-E1-A7

<400> 4495

acgcgtccgt gacagaagaa ggaatcgaga gtcgggtatg cattatccta acaacagAAC 60  
cgaattcgtc ggagctccag cccaacccg gtatcaaaag gagcagttgt caccggagca 120  
agagctttca gttattgtct ctgctttgca acacgtgatc tcaggggaaa acgaaacggc 180  
gccgtgtcag ggtttttcca gtgacagcac agtgataagc gcgggaatgc ctcggttga 240  
ttcagacact tgtcaagtct gtangatcga aggatgtctc ggctgtaact actttttcgc 300  
gccaaatcag agaattgaaa agaatcatca acantgaang aagagattac tagtaagtag 360  
taacagaaga nagagangag ctctcccgtg ggnaagaaa ngcnggagggt ggcngggaaa 420  
atcaggaaga ggaaanaaac aa 442

<210> 4496  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4496

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ccatttcena acagaatttt tctctttttt ctctttctct ttttcattcc ttagagattc 180  
ntgattctcc cacttccttc tttagtcggt acagtcnttg ctctgttttc aaaaaaanaa 240  
agttgggtcc tttctcaact tttttcccggt gaaaagtgaat tgagagctaa aannggttta 300  
tcatgtttga gattcccggt gtaatacaaa ttcctctcaa nnaaaaaggt tccantttta 360  
aancctcttt cgaaantctg gtanntttat ggagtaagnt taggggtt 408

<210> 4497  
<211> 412  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-036-Q1-E1-B6

<400> 4497

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tatcagatct cgccgatctg ttgtagcagc tactgtatct tgggcttctc atttgatatt 180  
ggggaaacga ggagtagagg acgatggaaa atctgatctc tctggttaac aagatacaga 240  
gagcttgacac ggcttttagga gaccatggag actccagcgc tttacctact ctttgggatt 300  
ccttgectgc gatcgccgtc gttggtggtc agagctcang gaagtcttca gtcctggaga 360  
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<210> 4498

<211> 417

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-036-Q1-E1-B9

<400> 4498

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acagaagtca acaaattctt catttggttt ttagcaaata aaagaaatgg ccggagggtt 180  
cgtcagtcaa acgccgggtg ttcggaacta caattacaaa ctgacaccga aagtgtttgt 240  
gacatgtttc atcgggtgctt ttggtggtct catcttcgga tacgatctcg ggatctcagg 300  
aggggtaacc tcaatgggag ccattcttgg gaaagagttc ttcccttacg tctacaagaa 360  
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<210> 4499

<211> 419

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-036-Q1-E1-C6

<400> 4499

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 actctcacc ttctccatct cctcactca caattcaacc gtctctctc ctctatctcc 180  
 ttccgtcgct tccctctaac aaccatcaaa tacacttcca tcagagcctc ctcgatcatca 240  
 tctccttcac cggatctcga ttcacgtcc tcatcancat cctcgcaagt acttctctca 300  
 nctaacggta ctgggtctgt gaagtctgat gagagatccg ttgtcgctac gngcggttan 360  
 gacngatagc tctgggattg aggttgatac tgtgncggaa gctgaagctt aaggaagaa 419

<210> 4500  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-C8  
  
 <400> 4500

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 aagctggatt cgtctctggt gctgtagatt ttcgaagatc cggtcagagt cgttcgtgaa 180  
 aagctccttg tttaagtgtt acgggctaca tcggacgctg actggctttt catggaattt 240  
 gagtgccaag agagacttga agctgcgaac gatcaaagaa gtgagtctgg tcttttgaat 300  
 accgatttga gaataggtaa tgatgggtct gttgagattc caaatgtga agttgtgttg 360  
 tcagaaaaag aagggaactt tagtgcccag tggcntcgaa acagttacnc ccctg 415

<210> 4501  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-D12  
  
 <400> 4501

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ggagctcttg gactatgaag aagaagacga gaaggtccca gattctggaa acaaagttaa 180  
 cggcgaagct gtgaaaaaag ggtacgtggg aatacacagt tctggattca gagacttcct 240  
 tttgaaaccg gagcttctca gagctattgt tgactcagga tttgaacatc catctgaagt 300  
 gcaacacgaa tgtatccctc aagctatctt gggatatggat gttatctgcc aagcaaagtc 360  
 tggatatgggg aagactgctg tgtttggcct gtcnancctt acaacagatt tggaccaatc 420  
 cn 422

<210> 4502  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-036-Q1-E1-D7

<400> 4502

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 tcttctcttt ttagtttttt ttttcctttg tgcgatttt ttttagccgg cggcggtctcc 180  
 tccttctttg tggcttaatc aaagagtttt aagtcgacgg cgaagcggag atagttctct 240  
 cagatggagg ttcgttggtg gatctacaat ggggaactat gactctcgac gacggcanca 300  
 gatctgggtg gatttcttcg tcagtctctt cgcggaggta cctctcctcc gatgaacctc 360  
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 g 421

<210> 4503  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-035-Q1-E1-G3

<400> 4503

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ggagcttgct tacctggaac tgggtgctaaa attgtagctt tgggtggagg tccatgtaca 180  
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 ctagataaag atgctgctcc ttattataaa aaagctgtaa agttttatng atagtattgc 300  
 aaagcagctt gtcgctcagg gtcatgtgtt agaccttttc gcttctgcac ttgatcangt 360  
 cggggttgct gaaatgaaaa gtaancgttg aaagtacccg gtgggtccccg tgatccgtcc 420  
 gaaantttgg gcaatccgta attaaagat 449

<210> 4504  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-E9

<400> 4504  
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 ccgtcatcnt gattcacgtc caaccacaaa acgccgatca taccgcgaaa atcctcttcg 180  
 aggaaaccgg ttcaccgcta attcctttgg aggaatttan agaggttaat ttgtctaaac 240  
 agtatggact tgcttacgat cctgagggttc ttgatgttct tgatactcnc nctatggcna 300  
 aaaagggtgaa ggttgtagca aangtgtatt ggggagattc aatggagaaa ctttgtgatg 360  
 ctgtcnaaaa tctaaaacnc gattccattg ttentgg nac tctaaggtn ggggttcctc 420  
 aaaaggatct tgcggggtta ctgtgncaat c 451

<210> 4505  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-F11

<400> 4505  
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tgagggaata tttgcagatc gatctatcgt cgatttagat ctggcgttcc tanggttcat 180  
 cgacgctgga gattcatggt ctctggtgat tgcattttcg aatttttgct gaaattgggg 240  
 aaaatttttag gtgctgtgta tatggatana ngtggganga gatctggtga atctccaggg 300  
 gtattgatta acaanagaag ttcttctggt tgcttaattg tgaagaagaa cnatggtggt 360  
 ggtacgactt gttcgtttca gaaaatcgnc cgaattggga gtccaataag aagtcaagat 420  
 nattacaatn acccgaatcc aacgataaaa t 451

<210> 4506  
 <211> 443  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-F2

<400> 4506

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 agtatttgga aaagataatt tgttcttgaa ggaagtgttc atccacaagt acctccaaaa 180  
 aatcactatg caaattcttg gctccgaggg tttgaagcaa acaatgtag gaaacatgga 240  
 caaagcaacc cgcgaccata ttaggtccat tgctagccag gggagcttca atgttcgtaa 300  
 agaagttgaa aacttgtag taacgtacat gacaccaaag ctgataagtt ancctaaanc 360  
 aagagacgca atcaaagcct ataagataat cccaacgcn tcaatcctga atgggttaag 420  
 tccctcctaa gactcnccac ttg 443

<210> 4507  
 <211> 399  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-F3

<400> 4507

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caagtgtagc ttgcctatca ccaacggtcc aggattcgcc agaatcaact gtttatcatc 180  
 agaanacaca gagtcaggta aatcttcttc aacnaattca ctttgagtgc ttagattatn 240  
 atccttaaag aattcagtat gtgtgtanac atgtatgtac ctgaatgtct cttttctgga 300  
 gagacttgta taagtcttcn aatgcgtgaa taacacttgt atcnatgtcc gtncagtgaa 360  
 aaataanggt gtncgttaaa agnaagcgaa cccactcta 399

<210> 4508  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-F4

<400> 4508

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 gtcacgattc attgttgctt ctctcaaaag gtattttctg ggttttagctt cttanagggt 180  
 cttcgttctt aaaggctctgt ttttttttag gttgtgatac tttgaatgta aaaaanggaa 240  
 gatttttagt ttcgatatgt atatctctcg gatggggttg agtcggagtt tcccgccgct 300  
 ttttggggga tttcgggaaa ttctanggtt aagggttgga taatgtcttc ctctagcagt 360  
 ctctgcnact tttaaaatcc cctcaacctt ccttgaaaat taaaaaagggt tttttaantg 420  
 gttggttcct ccctgggaat ccaaatttct g 451

<210> 4509  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-F9

<400> 4509

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 cgggtggacat ggctaattca naggagctta agaaagtttt cgaccagttt gactccaacg 180

gcgacggcaa gatctcagtc ctcgaactcn gcggtgtgtt taaggctatg gngacttct 240  
acacagagan ggaactcaac cgcgtgctcg aagaagtcga tacagatcgc gacggttana 300  
tcaacctcga cgaattctca antctctgtc gctcgtcttc ctccgccgna gagatccgtg 360  
acgctttcga tctctacgat caggacanna acngactgat atccgcctct gaancttcac 420  
nacgtgctta aangtctcgg gatgtcttgc tctgttgann actgtaagcg tattatcgga 480  
actgtggatn ctgacagt 498

<210> 4510  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-G12

<400> 4510

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agcgtttccg gtgaatcttc tctctccgat atgattcaga cagttcattt ttcctctgga 180  
aaccctagaa tcggcgagac tcgcggtgtc atgcatctaa tttccgacaa tgctgtttcg 240  
tcattcttctt ctctctcttc ctcgaatctc cctattggaa ggaaccctct cgtttgcgtt 300  
cttgggggtgc ccaaccacat gacatatgca gatttttgcc agttctgcgg ctcccttcatt 360  
cagcacatac tggatatgcg aaccgtcagg aatgatgaca ttgaaaataa gatacagcat 420  
tttgataagg ttgatagtc aggaatctac cgatacatt 459

<210> 4511  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-034-Q1-E2-G2

<400> 4511

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caatctcttt gagagaatgg atcgaatggg tgcttatggg ccaacgtttt gcgatatcac 180

ttggggagct ggtggatcta ccgcagatct aacgcttgat atagcttcga ggatgcaaaa 240  
 cgttgtttgt gttgagagta tgatgcatct tacgtgtact aacatgcctg ttgagaagat 300  
 tgatcatgct cttgagacta ttagatctaa tgggattcag aatgtgcttg ctcttagagg 360  
 tgatctcctc atgggtcaaga taattgtcaa gttgaagtgg tttgattgtc ttggatctgt 420  
 taacacattc gtacaagt 438

<210> 4512  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-G3

<400> 4512

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 ttgaaagttt ggttcgataa gaagatcagt gaaccactta tccagatctt gcgcagaggt 180  
 gctgagccaa agcagctggc tttttctgcg gcattgggta ttaccatggg agtatttcca 240  
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 catgctccaa ctgtgatggt ggctaacttc attgctactc caatagaact aagtcttgtg 360  
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<210> 4513  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-G5

<400> 4513

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 tangagctca tgggtganca agctcttcat aggtacaaat acagtggagt ggatcactct 180

tatcttgcca tatacgtcct ccaacctttt tggactcgat ttgtcaaagt cttccctcta 240  
 tggatgccac caancatgat aacgcttatg gggtttatgt ttctagtcac ttctccctg 300  
 ctaggtata tatattcacc tcagttggat tctcctctc cacgatgggt tcaattcgca 360  
 catggtttac ttctcttctt gtatcaaaca tttgatgctg ttgatgggaa acaagcaaga 420  
 nngacaaatt cctctanccc cctatg 446

<210> 4514  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-G7

<400> 4514

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 atttggttta tcttgataaa catgaagaaa gtattgcctt tggatggta aatttatcaa 180  
 atgagagtag tagacatgag agtcatgaga gttctttcag tgatcagctt ggtgatatgg 240  
 atcaagatta tactgttgaa tgcgagtcta ggcggaatga tgaggtcagt caccagggtt 300  
 ttgatgttga aaacagttcg actcatggta gtcctcatgt angcaatgaa ttttttanaa 360  
 agggtcgctc ntgaaactaa ggaggtttgt ggtaaaatgt tgggccact aatgcgccac 420  
 tgaancaact ataaacgaaa ttaata 446

<210> 4515  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-G8

<400> 4515

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 aatctaactg aaactcatag ctgaaaaatg aagagagatc atcaccaatt ccaaggtcga 180

ttgtccaacc acgggaacttc ttcttcatca tcatcaatct ctaaagataa gatgatgatg 240  
 gtgaaaaaag aagaagacgg tggaggtaac atggacgacg agcttctcgc tgttttaggt 300  
 tacaaagtta ggtcatcgga gatggcggag gttgctttga aactcgaaca attagagacg 360  
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 aatccgtcgg agcttaatct tggct 445

<210> 4516  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-G9

<400> 4516

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 ttgaaggcgt tagagaagcc tgatggtggt gaattcggta actactacag cttacctgct 180  
 ttgaacgata ccaggatcga taaactacct tattccatta ggatacttct tgaatcggcc 240  
 atacgtaact gtgatgagtt ccaagttaag agcaaagatg ttgagaagat tcttgattgg 300  
 gagaatactt ctcccaaagc aagggtgaga ttccgttcaa gcctgctcgg gttcttcttc 360  
 angactttac tgggtgttcc tgctgttggt gatctgcctg catgagagat gccatgaata 420  
 atctcgggtg tgaatccaat aaaattaatc cgctgggncc 459

<210> 4517  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-H1

<400> 4517

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 gttcaacatg ctaaaggaa tcgtccatcg cctcctcctt tctacgagaa tcctggtttc 180

ggagtcaata tagtcgaaaa cagtgaagtt ttagatgggg gaactaaacc atggttcact 240  
ctagggaaact gcaagttgag tggtggacaa ggcgctccgc gcactctgcc tccaatggcg 300  
agagacacgc taggtcctca caaacctcta ggtggaaact acatcgtttg tgactaacag 360  
aacgcagact tggttgggtcc tgctcaagat gatnaaccga taaaatcaaa ctctctctta 420  
catatcaaatt ctcaaccttg gtcaaacctt ggg 453

<210> 4518  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-034-Q1-E2-E5

<400> 4518

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acaatcgaat ttggacttca cggattccat cgatgaanat gggaacaatg atcatgtana 180  
tattgtggct gctgaccaag gagaaagtat gatggacaag gaagaggttt tcagcagtga 240  
tagtgaaagt gaagatgatg acgaaccagg aagtgatgag aagcctgctc aggctaagaa 300  
aaaggggatgg ttttcttctg ttttccagag tattactggg aangcgaatc ttgaaaggac 360  
agaccttgna ccggcgttga aanctctgaa ngaacggctc atgaccanca atgtggcaga 420  
aganattgct g 431

<210> 4519  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-034-Q1-E2-B6

<400> 4519

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aaataaactt cccttatcca cttggattga cattacttca catgactttt tcctctgttt 180



tgtgttttct cctcacgaag gtttttaagg tcatgaaggt tgaggaagga atgacattag 240  
 aaatatatgt tacatcagtt attccaatag gtgcaatggt tgcaatgact ctatgggtag 300  
 gaaacactgc ttatctctac atanctgttg ctttttccaa atgttgaaag ccatcatgcc 360  
 ngttgctgng ttaaacttgg agttgggggtt gggcttgaaa taatganctg caanatgctt 420  
 ttgaaatgtc 430

<210> 4520  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-B9

<400> 4520

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 attttcaggt tctttgacac agattctggt aatgtagga ttgatgggtca agatataaag 180  
 gaagtgcac tagagagtct tcgaagctgc attggagttg tccctcaaga tactgtgctc 240  
 ttcaatgaca caatatttca caacattcac tatggaaacc tttcagcaac agaagaagag 300  
 gtgtacnatg canctaggca accagtgtt cagcgtacga tcatgaaatt tccggataaa 360  
 tattcnaccn cgggtgggaaa aaganggctg atgctgattg gtggaaaaaa acaaagantg 420  
 gcacttgenc cngcctttcc ngaaatcaca agcg 454

<210> 4521  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-C1

<400> 4521

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 atcttcccaa agttgggcga tctgacaata gatcactgtg atgatctcgt ggcactacct 120  
 tcaagcattt gcggactgac ctcncttagc tgcttaagca taacaaattg tccacgcctc 180

ggtgaattgc ccaagaacct cagtaagcna caagctctcg agatcttttag ctccanggcaa 240  
 gcatatagcc ttaagatttc gacatctcac aatgtgtcag cctgagttgt cttccatagg 300  
 aaataggaaa gctaaagaag cttgagaaga tcgacatgag aaaatgttgc ttccgggata 360  
 naacgagctc tgccggttca ctgaaatcct ctgcgccatg ttancctgcg ataccgacgt 420  
 tgcattaagt tggaaagaag ttgagaaagn t 451

<210> 4522  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-C12

<400> 4522

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 tttatagaag ttctagaaga ttacaaattc ttggatctgt gattcttctg ctctctattc 120  
 atgtcgctca ctctttttac ctctctggtg ttgctcctca ggatttcgaa aagggagatg 180  
 aattgaaagt gaaagtaaac aagttgacat ctataaagac tcagcttcca tattcgtatt 240  
 actctcttcc tttttgtcgt cctaagaaga ttgtggacag tactgagaat cttggtgaag 300  
 ttcttcgtgg tgaccgaatc gaaaatgctc cttattcggt taaaatgcgt gaggcgcaaa 360  
 tgtgtaatgt tctcggctgt gttatgcttg atgcaaagtc tgccaaagcg tttaaagaga 420  
 anattgatga 430

<210> 4523  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-C2

<400> 4523

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 ggtcgctggg tcgtttcaga gaaagctgaa taccaaggtg tgtggaagca cgagaagagt 180

gaagggcatg atgattatgg acttctagtg agtgagaaag ctaagaagta cggaatagtt 240  
aaagagcttg atgttgatga gcctctaaac cttaacgaag gaactgttgt tcttcaatac 300  
gaggctcgtt tccaagaagg gcttgagtgt ggtggtgctt acttaaagta tctccgtcct 360  
caagaaactg gatnngggttc ctcaagggtt tgataatgaa tctctctaata ccaacaagnt 420

<210> 4524  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-034-Q1-E2-C3  
<400> 4524

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aactcgcggg ggagccaacg cggcgaaatc nctgttagtg gcggctggac cacntttgtt 120  
ctcgacggtc cgtacggttt cntctcacna ggctttatca gcaagccata ntttgaaccc 180  
tggtgttaca tctgcttga tatggacnag agctccgacg attggangta tgatattcgc 240  
tancacgatc actctgggan ataaaactcc gatgaacgat gaagacgcga atcataaaga 300  
tcacagagaa cgaatccaac gngtggagaa cgccgccgga nggtaataac anngggaaga 360  
taaagggant cgccaagcta atgggggtgt ttgaanccta ataagattac taaaataaaa 420  
tggntcctga atgggaantt ggnactgntt caaggccaat gggaa 465

<210> 4525  
<211> 516  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-034-Q1-E2-C4  
<400> 4525

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gtgatgaaat ctctattgat gagaaccggg tcgatgccgg ttcttcaaaa ccggttaatt 120  
tcagggtggt catcgcggaa gatgacgcct atctccagga ccaactccgt cgaatcatta 180  
tccagctacg gcgagagatt cgccggcggg aagatttcga tcgagggtta ggctaattga 240

gggatgcgga ggggtgttatc ggaaagtgat gtgattagat ctgagagaat gttgaaaaga 300  
 gttggatcta agccttcgcc ggcgagaatc ccggaggatg atgaagcggg ggaagaagaa 360  
 aattangttt gcaagatggg tgggggtcct atgattctcc cgggtgggttt aacctgtngg 420  
 anggagaaaa tgtttcaacg gggttggccg tnttttggtg gttngattct gggntaaaac 480  
 cggccgggtt aatggaaacc ggaaggaagg aaggcc 516

<210> 4526  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-C7

<400> 4526

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 tcccanttga cccatttgaa atcanccttc aaagctgtca aatatangcc tctgccatcg 120  
 tctcgtcca agtcatcatc cttctccgtc tcttgcacca tcgccaagga nccgcctgtt 180  
 ctcatggcng ccggatctga cncggccctg tggcaangac ncgnttcgtt cggtcgggtt 240  
 gggaagtttg gtgggaanta tgtacctgaa acccttatgc acgcgctatc tgagcttgaa 300  
 tccgctttct atgctcttgc naccgacgat gatttccaga agagagttgg ctggaatctt 360  
 gaagggacta tgtgggtaga gaaantcctc tgtattngca gagagggtac ngagcaa 417

<210> 4527  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-C9

<400> 4527

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 atcttttgag aaaggcactg tgcaccttat tggctctcta agcgatgggtg gagttcactc 120  
 tcgtttggat caagtccagt tgctgcttaa gggttttgca gaacgtgggtg ctaagagaat 180  
 ccgcgtccat atttttactg atggctctga tgttttggat ggttctagtgc tcggatttgt 240

tgaactctt gaagctgacc tancgtctt acgtgcgaaa ggtgttgatg ctcangettgc 300  
atctgggtgga ggtcgaatgt atgtcacaat ggaccgttat gagaatgatt ggagtgttgt 360  
taaacgangt tgggatgcac aagtccttgg ggaaactccc canaaattta aaaacgctcc 420  
tgaagcantt aagacactga agggnaagaa cctgggtgg 458

<210> 4528  
<211> 513  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-034-Q1-E2-D12

<400> 4528

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attcggatca aaattgtctt caagcatcat ggatccatac agggttcgtc cttcaagcgc 120  
tcatgattcc cttttcttca ctacaaactc ggggtgctcct gtctggaaca acaactcttc 180  
tttgactgtc ggaactcgag gtccaatcct tctggaggac tatcatctgc ttgagaaact 240  
cgctaacttt gacagggagc ggattcctga naggggttgtt catgccaggg gagccagtgc 300  
taagggtttc tttgaagtca ctcatgacat taccctaactt acttctgctg attttcttcg 360  
aaggacctgg tgttcaaact cctgttatcg ttcgtntctc aactgtcatc catgaacgtg 420  
gcantcccga nactctcaga gattcccgtg gttttgctgt taagtttaca ccaganangg 480  
gaaatttgat cntgttgga acaacttcct gta 513

<210> 4529  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-034-Q1-E2-D2

<400> 4529

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cgatctatct ctttagttga aacttatcag aatggctcgt ccacaagacc ctccacgtgg 120  
tttcttcctt tttggaacc ccttcaaaaa tctatcttcg aagaactcgg tactctcctc 180

aaagcttctc ccactcctga acaattttga gaccaactta gcattctcta ttagtaagct 240  
 tgtccctaag gaaaagagcg atatacctgac tgtctcatgg atgaaacaag ctatggaatc 300  
 tctttgcgag acacataatg gtatcaagac ccttataacc gatcttgacc ttcnngtacc 360  
 agattgggaa ggataaatgg gttgangtca accttgaaat tatngtgaac cttcttga 418

<210> 4530  
 <211> 434  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-D9

<400> 4530  
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 gacaacgact cactggcgtc atcgccgaga tcggagtagc atagtcagcc acgcgtacgg 120  
 ttcattgtga cttttggagg aaggatcttg ccacgtccgc cggataatca gctctgttac 180  
 gtcggcgggc ataatcgcat ggtagctgtt catcgtcaca ctactttcgc ctctctcctt 240  
 agtaaacttg ctaaaacttc cggtaaaagc aacataagcg tgaagtacca gctaccaaac 300  
 gaagatcttg acgcgttgat ttccgtatca acggacgaag atgtagagaa catgatggac 360  
 gaatacgacc gcgtcgaca naatcaaaac ccangcgctt ctcgtcgtcg tcttttctct 420  
 tcancaaaaa ctcc 434

<210> 4531  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-E1

<400> 4531  
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 aacacaccgg tgaggaaacc acacatgtcg acggcggatc tactcaattg gccggagaa 180  
 caaccgtttg agtctccgc cgcgtatct tctcgtccg ccgccagatc gcaccagccg 240

tcggatggaa taagcaaagt cgtatttggg ggacaagtta caagatgaag aagttgagag 300  
 cttgaacaag aggaagcctt gttcaaatta caagatgaaa gagatnacag ggagtggaaat 360  
 attctctgtg tatgaagaaa atgatgattc cgagtttagca aagtgcctaan tcccgccaca 420  
 aaacggnaaa tcaagaactt ccaacaaaca 450

<210> 4532  
 <211> 505  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-E3  
 <400> 4532

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 cgtcgccgcc gtctccgtca ccgcggcggc ggaagttgct tcgtcggta ttccaggttt 180  
 tgatatgcct aatatgaaaa ttacggtaa cgggatcgag tggtcgacgt tacttggaca 240  
 aggtcatcg gccggtggtg ttttctcgga gatcggtggt tttccggcgg tttcagctat 300  
 tgaaactaca ccgtttggat tcgggggtaa attcgtaaatt caagatgatc atctgaagtt 360  
 agaaggtgaa actgtacanc ancaacagtt tgggagatcg aacggctcaa gttgagtttc 420  
 aaggaagatc ttcggattcg aataaggga ttgaaccgtt ggattgggga anttgcngtg 480  
 gagattaaac actggttgat taanc 505

<210> 4533  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-B5  
 <400> 4533

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 tgaactactg gtcacacgtt gactgttaaa ntcattgagg ctaatatcgt ggttcctgtt 180

acccggaaga ctggtccagc gagttctctg agtcgtcctt ctcagcctag tcgaatcggt 240  
 gagggtctca tcngtgacna aactgggtgt atcctcttca ctgctcntaa cgatcaagtt 300  
 gatcttatga anccggntgc tacggtgata ntgctcaatt catggatata catgttcaag 360  
 ggtanantga cgctangagt tgatanatgg ggaccatcga aaccactgga tccnctcnt 420  
 tcactgtcaa aggagg 436

<210> 4534  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-H3

<400> 4534

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 tgctctgtta cagactctca gggatctgcc ggctacaaag tccggtggat agtgttatta 180  
 ttagacaatg gcgtctaata atcatttcat gaacagtaga tccaatctat caacaaactc 240  
 tgatgctgct gaagctgaga ggcaccagca gcctgtgtca aattctgtga catttgcccg 300  
 caggactccc tctggccgat atgttaacta ctccaagaga tgatctcgat aacgaacttg 360  
 gaaatgtttg atttaactgg gctaatacgt tcaaaatcct ccaactccgg ntaaccaacc 420  
 taaggattcg tccanctctc aaaaagttga ngancantat gtctcgaaat ccctgttcac 480  
 gggg 484

<210> 4535  
 <211> 502  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-H4

<400> 4535

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 aaaagcgacg ccgttttaaa ggagatggat aaacaaccgg cgaccaagtt ggagtatcca 120



tacccggccg gagataatcg ccaagtacga agatcttcga gcgagtcgga tccggagctt 180  
 acgccgacgt ttacagagct cgccgtctct ccgacggtct aatcgtcgcg ctcaaggaga 240  
 ttttcgatta ccaatctgcg ttccgggaga ttgacgcgct caccatcctc aatggatctc 300  
 ctaatgtagt tgttatgcac gaatacttct ggcgtgagga agagaacgct gtgcttgtgc 360  
 ttgagtttct tangtcggat ctgctgctg gtagccgaga tggtaagaag aagaagaang 420  
 tagaaggaag ggatggattc ccgttgggga aattaagaga tgggtgattc aaattttaan 480  
 cggtgttgat gccttgtcan cc 502

<210> 4536  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-H5  
 <400> 4536

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 ggagacgatg aagttcaacg tgcgcaatcc gaccaccggg tgtcaaaaga aactcgagat 120  
 cgatgacgat caaaaactcc gcgccttttt cgacaagagg ctctctcagg aagttagcgg 180  
 agatgctcta ggcgaangga attcaaaggg gatacgtatt caaagatcat gggagggatg 240  
 tgacaaagca agggttccca atgaaacaag gaattcccaa ctccaanggg cgtgtncctg 300  
 cctttgctn aaccgaaggt aatccttggg ttaaaggaca cgggaaagga ggactgggag 360  
 aagaaggaga cgaaaagtcn gtcccgtggg ttgcaatgtg aaccctgacc tgtctgttcc 420  
 taacttggtc aatgtgaaag aaagggtgaa gttgatcntc ccg 463

<210> 4537  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-H6  
 <400> 4537

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tggagaatca atctgatgtc atgcgttaca tacccaatgg tcataanaag gctttgcggc 120  
 aacaaaatac ggcanaaact aaagatcact tgttttctgc aaattatggt ggaatgagtg 180  
 ggtatggagc aagtcttggg gcttctacag tgggttccca tggacatgtc aacatcccta 240  
 aacgaacctc ctcttcancg agtctctact caacttcaga ccattcnaga ttangaagcg 300  
 tgggcttatc tgatgtcaat attangaatg gaaatattaa tggaacagac ttctccacag 360  
 ctggtgggta tatggcaaag aacaagttga attcattagc tgagcactat tccgctgaan 420  
 gccacatttg actggggat 439

<210> 4538  
 <211> 443  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-H7

<400> 4538

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 ctgagtcac aatcactggg ctgaatataa ctggatatgc tatagcgctc tgtggtgttg 180  
 taatgtacaa ttacataaaa atcaaggatg taaaagcgat tcaaccaacc actgacagcc 240  
 tcccagatcg aatcacgaag gactggaagg agaagaattc gtcagatggg gggagcccca 300  
 gaggattgga gcttaacgat gaagaanccc ctctgataac gtcgcggttg tcgcatattg 360  
 gccggactca ncttggaac acacggcagt ctganaatga ccgttaatgt tgttcacttc 420  
 caggtgaaaa tgtctttaac ccc 443

<210> 4539  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-A1

<400> 4539

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 tgaagattgc atgcaagggc cgtgatgcag tgccagataa tgtgtctgtc aacgcatttg 180  
 tcaatgaggt taatcagttt gtcctaaatc taaaacactc gaaaaagtat attctcgtcc 240  
 attgtacaca tggacataat cggacagggc tcatgatagt tcattatctc atgcgatctg 300  
 ggccaatgaa tgttacacan gctttgaaaa tcctttccga tgcccgccca actgggatct 360  
 ataaaccaag attatattga tgccttatac tcgtttatca ccaaataaaa cctgaaagcg 420  
 tcatttgcca tcaactcccg aaagggaaaa 450

<210> 4540  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-A10  
 <400> 4540

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 ngtgacaatg gnactggaat ggtgaaggnt ggttttgctg gtgatgatgc nccnatagca 180  
 gtgttcctaa gtattgttgg tcgtcctaag cacactgggtg tcatngttgg tatgggtcan 240  
 aaagangcat acgttggtga tgaagctcag tccaagagag gtatcctcac tctgaagtat 300  
 cnantccaac atggtattgt nagtaantgg gatgacatgg taaagatatg gcatcanact 360  
 ttctacaacg atcttcgtgt tgcccctgag gaacaacnaa ttncaatcaa aagggttaact 420  
 cttanccta 430

<210> 4541  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-A2  
 <400> 4541

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tctagtagaa agagagaagg gcgtgaattc ctgagcgaga gattcttcgc cggagtaatc 120  
tctttgcgtg atcttaccgg ctgcttaatt cgtcttcgcc tgattcgttg gtttcaaaat 180  
tcgtctctct ctttcaatcg gaggttaatt gtttttctgt ttgggggtca aagcgaagat 240  
ggtgaacgct atggtggaga gagcgacgag cgagatgctg atcgggcctg attgggctat 300  
gaacctcgag atctgtgata tgctcaatag cgatccagcg caagcaaaag atgttgtgaa 360  
aggcattaaa aaacggattg gtancangga atccaaaagc tcaaccttct tgcccttaac 420  
tcctgcttga anacaataat gaaanaactg ttggtgacaa tgggtcaaaa atgcaatttg 480  
gcttaaaaaa aggggttaat caa 503

<210> 4542  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-034-Q1-E2-A5  
<400> 4542

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agatattgat cagatcagca gagtgaccaa tgtgctggga aatttaaag aagaggtctg 180  
gcctggttgt gttgatcttc cagactacaa gtcaatctca tttgctaaag tagaatctcc 240  
tcttgggtatt gaaggatgcc ttcccaacca ttcaggggat gtgatatcgc tgctcaagaa 300  
gcttatctgt tatgatccag ctagtagaag ctactactat gggagatgct gaatgacaaa 360  
tatttaagtg aagagcctct tccagttcca gttcagagct ctatgtgcct ccgacaatga 420  
gtggaccaga tgaggatccc cga 443

<210> 4543  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-034-Q1-E2-A7  
<400> 4543

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cccttccatc gatttagggg ttccgatttt caaaatctcc tttttatttg tttcctctcc 180  
ttgtgcaatt cccgtctcga atccatcttg acctgggggt ctgatccgat ctccctctaa 240  
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atcaatcgtg ttatgatggg gggactcaa aatttaggtg gttcgttgcc gccgctgaat 360  
tctcctaaaa gctatggaat tacgaagccg ctctctcttg ctgggccttc ttcggcggat 420  
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<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4544

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tggtcttctt ctgcttctcc cattccttcg atttttgctt caatggatgt ttgatttgct 180  
ctctgactgc gtttgtttac tatactatgg accctgagag tatcatggct gctgatggga 240  
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acagttccac tttggataca attgaacacg tcaaggaggc aactgaaggc acacaaatct 420  
gaacatgtnn atgattcaaa ntgtatgaaa agggaaaaaa ctcaaacgga aaccaaaggc 480  
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<210> 4545  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4545

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 atccggtcgg gacgtctgct ccggtgggtc tgatcttaga acccccgata ttcgtcttaa 180  
 ccggccgaca gactctgtcg tcggaaactg cccgacggag gcgagtcctt tagttatggc 240  
 tgacgacgag aagtacggta acaaaatggt tatcaagtct cactcctcgc ctttatgact 300  
 atgtcctcaa caacgttcgt gagcatgaga ttttgaagca acttcgagaa gaaactgcc 360  
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<210> 4546  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-034-Q1-E2-B4  
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 acaaactggt agagacctta agagagaggt caacaagaaa gtgctcaaag ttcctggagt 180  
 agaacaagaa ggttctatga tgctactagt aatgagccat ggggtccaca tggatcactt 240  
 cttgctgac ttgcgcaagc ttccagaaat tatcatgaat atcagctgat catggtgggc 300  
 atatggaac gccttagcga caccggaaaa aactggcggc atgtctataa ngnccttgaca 360  
 attttgngt acaaggtaag gcaagggtna anaaccttgt tannaccaan atttgngaac 420  
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<210> 4547  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-H2  
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 agtcggttct gtccttataa atacccatta agacttctct ctctctctct ttctcaccaa 180  
 atagtttcat catctcttct tcactaaata cttagacaga gaaaacagag ctttttaaag 240  
 ccatgtctct tcagtatcat gttctaaact ccattccaag tacaaccttt ctgagttcta 300  
 ctaaaacaac aatatcttct tctttcctta ccattcagg atctctctc aatgctgcta 360  
 agagacaaat ccaagaagcg gttccataca ttgttcaaaa gcttcgaact caagaataca 420  
 ttaattctca aaganggtca acatg 445

<210> 4548  
 <211> 352  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-G5  
 <400> 4548

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 ttcattgagt aagttttgct tggaatggtc gtgagaagtg ggtcatcgtc tttttccctt 180  
 tgcgttgtgt tgtgtgatgt tggtacgggt tatcttcgtg cttcttgtcg aattgagtat 240  
 attgtatcag taaagaattt ataacttaaa aagagcctta tgtcaaatac gacgtcgttt 300  
 tgtatggaaa tggatttttt acaccgctga aaaaaaanaa aaaaaaaggg cg 352

<210> 4549  
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 <212> DNA  
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 <223> unsure at all n locations  
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 <400> 4549

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ggctacaaag tccggtggat agtggtatta ttagacaatg gcgtctaata atcatttcat 180  
 gaacagtaga tocaatctat caacaaactc tgatgctgct gaagctgaga ggcaccagca 240  
 gcctgtgtca aattctgtga catttgcccg cangactccc tctggccgat atgtcaacta 300  
 ctccagagat gatctcgata ccgaacttgg aagtgttgat ttaactggct antccggttc 360  
 acattcctca aactccggat aancaaccta agggntcgtt cnanctctca aaaggttgag 420  
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 ntcancnta anggaaaaaa gtggnttcaa aa 512

<210> 4550  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 4550

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 ctgagtcac aatcactggg ctgaatataa ctggatatgc tatagcgctc tgtggtgttg 180  
 taatgtacaa ttacatanaa atcaaggatg taaaagcgat tcaaccaacc actgacagcc 240  
 tcccagatcg aatcacgaan gactggaagg agaagaattc gtcagatggg gggagcccca 300  
 gaggattgga gcttaacgat gaagaagccc ctctgataac gtcgcggttg tcgcatattg 360  
 gccgggactc agcttgggna accacacggc agtctgagaa tgaccgttaa gttgttcact 420  
 tctcaggtga aaatgtcctt taaccccntt tggaacccaa aacagtttta aataggaatt 480  
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<210> 4551  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-A1  
 <400> 4551



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 ggaggagctg cgttcgccgt cggagcttct ttccttcac ttttccttaa aggtgagctt 180  
 ccgttaggat taggtttagg tttgtcttgt ccatggcgca ttttgagaaa acgaaaacct 240  
 gttcgcgttt acatggatgg ttgcttcgat atgatgcact atggccactg caacgctctt 300  
 cgtcaagctc gtgctctcgg tgaccaattg gtcgtcgggtg ttgtttccga cgaagaaatt 360  
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<210> 4552  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-A10  
 <400> 4552

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 aaaggcagac ttgaagatga ccgatggatc gctgttaaac gattcaatag atccgcttgg 180  
 cctgatactc gtcaatttct tgaagaagca aaagctgtgg ggcagttgag gaatgagagg 240  
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<210> 4553  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-A12  
 <400> 4553

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 cctcctaccc gtgatgttac tagtcgaaga cccgccaggg ctggtcaaac tggactaga 180  
 aaatcacctc aagatggggc ttgggctcgt ggccctacta cacggaccgg tccagcttcc 240  
 cgtggtggca gaggtggggc tactagtaag tcaactgcag gtgcccgtc ttccactgcc 300  
 ggaaagaagg gagctgcctc aaaatctaac aaggctgagt ctatgaatgg tgatgctgaa 360  
 agatgggaaa tcaaaaaagg gaattgtatt aagggacctg atnaaggact tgctgctaag 420  
 cttgaaangg aatttgttgg ctcaactnc 449

<210> 4554  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-A2

<400> 4554

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 gttccaatcg ttctctcgat ggatttggtc ttctacaggg tggcgaggag aaaaatcgat 180  
 actgtactga tcacaccgag ctcttcaggc aagagagtta ttttgcttac ttgtttggag 240  
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<210> 4555  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-B1

<400> 4555

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 tgggtctggg ttgatctttg tctcaccagt caacccaatt caggactttg ataaagggtg 180  
 aaatggcggc tttattagct tctcagagct gctgctatgg cggtagagacc gcaagagtca 240  
 ccaaagctat tggtttcagt agctctttgg agaatcattt cactggggaa gccactcagt 300  
 gttatggcag caagtctaag agatttcgta ttgagatgag acagtcggaa ttgccctcta 360  
 aggttgaat caatggacgt tcagtcaaaa tggttcctgc gagtgaggtg gtgaagagga 420  
 aagatggtgt gaatggatcg gctgggaaag gtgttaatgg agcaatttgg ttaatagtag 480  
 aaacattaat ggtgcggc 498

<210> 4556  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-B10  
  
 <400> 4556

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 agatctatca tttggtttaa tcaagggttag ctagtgaaca tggcaacggg ggctgagaac 180  
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 gcacctaaga tggctcgag angaagtata natgaacctt ttgcatggg aaagcaaaga 360  
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<210> 4557  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E2-B12

<400> 4557

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cctcgttgcg attctaacag gggggttgat ccatgcggtg tgtagtctag tccggccaca 180  
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ctctctccca actcgcgtan ttagcaaagg atattccggg ttttgggcaa attgtggcaa 420  
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<210> 4558

<211> 450

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E2-B3

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gtggaagtgg acggtgaggt agtttttttt agtttttgaa agacatggcg caaacgggt 240  
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cgtgggctct tattgacgcg acgggacaga gtgagccact cgatgttgat aagtatgaga 360  
tnatgcaccg tgtccagatt cacgctcgcg atctccgat tctagacccc aatttatctt 420  
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<210> 4559

<211> 435

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E2-B5

<400> 4559

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ctttgatcaa actcaaaatt gaagaccaat actttgaagg attctggtaa agctaagcaa 180  
ctatgagttc aaattcatgg gctgatgttt ctgaatcaga gagggcacca tctggtggtg 240  
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caccatcttc ggagtttggt gctccttcac ctggtataa tgatcgtggg ggatatggtg 360  
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gtggtagaag aagtc 435

<210> 4560

<211> 502

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E2-B6

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naagctttna gctccagatc tgtggaaccg ccatagctat ggagtttttag agaagttcna 180  
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<210> 4561

<211> 537

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-G1

<400> 4561

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gggttcttct tagtttcgac agattcttga tccgttttag ttgttacgct catctttgct 180  
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gaaatcttgc taaaaaaaaat ggggtgttgag aaaatggtgt gtttagcttc tcgtacgggt 300  
cgtcagtttc aagagataca acanagggtc gtcgtcaaag tcnttgatg tgttccttaa 360  
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accccttccc aaaaaaaggg cagccctta atggttnccc caaanggggtg ggttggggaa 480  
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<210> 4562

<211> 503

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E1-E3

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ctcaaacatt ggctgtgaat gatgcgactg tgaagtttga gatatgggat acagctggtc 180  
aggaacgata ccacagtttg gctccaatgt actacagggg tgcagctgct gctattattg 240  
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aggcacaagg taacccta atggtgatgg ctcttgctgg aaacaaagct gatttattag 360  
acgcaaggaa aggtgtctgc agaggaaggc agagatatat cctcaagaga acaagccttt 420  
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<210> 4563

<211> 510  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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<400> 4563

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ctctcctcac cgtcacgcgc cgctcgcct ccgcctctcc ttccaccgtc ttctctttct  180
tcaacaccgc acaatccaac tcttcgttat tttcctccgg tgacgaagca gatcgtccgg  240
cgaacatcag agtatacgat attgccgacg gtgttccgga gggatacgtg tttagcggga  300
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cgccaaaggc gggagaagga ngttggtacc ggaagtgaaa tgtttgatga actgatgcct  420
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<210> 4564  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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<400> 4564

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cgccgataac cgccacgtta tcaacttccg atcgccggga ctctaccggg agggactaac  180
ctgggatcca aggaccagc attttctagt cggttctctc cacagccgca caattcattc  240
cgtctccgac gctggagtca tcgaaacct aatctccgat ctcgatctac cggagaactc  300
cactatcctc ggtctcgccg ttgactctac taatcgccgt ctcttgccct gtatccagag  360
tttgccgcct ctccctccct tcagtgcctt agcctcctaa cgaatctccg gnagcggaag  420
gccgttcgtg taancctctc tccgtctccn cgttctcctt cccgggagaa cgaacgaang  480
  
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530

<210> 4565

<211> 490

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E1-E6

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gtcacctaaa ttcaattcac tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg 180  
cgttacccaa cttaatcgcc ttgcagcaca tccccctttc gccagctggc gtaatagcga 240  
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acttgccaag cgccctagcg cccgctcctt tcgctttctt cccttccctt tctccgaac 420  
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<210> 4566

<211> 463

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E1-E8

<400> 4566

ggaagaaaga aggaagacga tgatgatgct cagaatccga agcagagatg gactggagag 60  
agtcacagcg gagggagctc atatcactgt ttcccagctc aaaaccttga tcgcggatca 120  
gcttcagatc cctctccata agcagacctt atccaccaat cgtgatctcc tctcgccaa 180  
aactcccgct gatctactcg ccttcaccga cctcacggac ccaaacctcc ccctctcctc 240  
tctcaacctc ggccatggct ctatgctcta cctcgcttac gatggcgagc gctccattcc 300  
tggaagctcc tcccgttact cctgccggat cttcgggaag gaagatgacc gtcgatgact 360



tgatngcccg ccaaatgcgc gtnactcgtc aggagactct catgcaatcc gtccttcga 420  
 ttgcgaatgc cgccaangct ttcaacaata agtnaatgag tcc 463

<210> 4567  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-F2  
 <400> 4567

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 ttgatggaga gcttttcccg agatatctga gctttgtgaa gggagttgtg gactctgatg 120  
 atcttcctct taatgtttct cgtgaaattc tccaagaaag cagaattgta agaatcatga 180  
 gaaagaggct cattaagaaa aacctttgac atgatacaag aaatctctga gagtgaaaac 240  
 aaagaggatt acaagaaatt ctggganaac tttggnagat tccttaaatt gggttgtatt 300  
 gaagacaccg gtaaccacaa gcgtatcaca ccgctacnta gattcctcag ttccaagnaa 360  
 tgaagaggaa ntgacaaagc ttgggatgat taaatcnagg aacatgggag agaaccgaa 420  
 aggggattta acaaccnc ccaactngnaa ntctnaaag ngnaaatttg gcccctttct 480  
 tnngggaaaa cattccnnaa gaa 503

<210> 4568  
 <211> 563  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-F3  
 <400> 4568

gtccatttg gaaatccaga tcatgctcta gagccctagt ttagatctcg aaggaagaca 60  
 atgggacgga tcttcgagta ctctgctgtg tgcggacttg gtccagagat gcgaaccgtg 120  
 gatggagatc ttggattcca tggaatgcaa acattctact tgctgtctct tcttgaccag 180  
 ttccctccta ctgatcaatc tccttaccct gcccctctc ctcagcttcc tacttgtgtt 240  
 ctctctgctg ggggtggagt ccattcttct ggttttgttt ccagtgacct tgcaagtttc 300

ccacggagct atccccataa gtccttgaac gggaggggtg atgggattaa aaaataattt 360  
 ggtcaagttt gcaattggca antttccggg ggaatncnaa ntcttggttg aagggaataa 420  
 ttaaattgga aagccttaaa ccgcctttaa ccggcccgaa attacattac gcaagnacca 480  
 aagttggtaa cccggtcctt ggggggtcccc aaaggccccc caaantttcc cgtgggttcc 540  
 ntccgtaaat tcccccccaa ana 563

<210> 4569  
 <211> 532  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-F4

<400> 4569

gcaaaaactt gcggactcca nagtgagtgt gagaatcgga gatgtctttt tcagtagtag 60  
 cagctttacc ggtgcttgta gcagtagtgg tactgtggac atggcggatc gtgaagtggg 120  
 tctggataaa accaaagatg cttgagagtt ctttgaaaag acagggctct accggaactc 180  
 cttacactcc tctcgtcgga gatataaaga ggaatgttga tatgatgatg gaagcgagat 240  
 ctaaaccat caatgtaacg gatgatatca cccacgtct ccttcctctt gccttaaaga 300  
 tgctcaattc tcacggaaag actttcttca tatggattgg accacttcca acgattgtga 360  
 taacgaatcc tgagcagtna aaggaancct taataaantc aacgactttg gagaaannct 420  
 tccaaaatcc ccttngatca anattggtaa ccaggggtggg ncttgcaa atttaccaangg 480  
 ganattaaat gggccnaant cnnaaggag gnttnatcaa acccgggctt tt 532

<210> 4570  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-F5

<400> 4570

gggtgaatcg agtcatggtg ctactgagc tcgctgcgtt gtattactca ggtactgtag 60  
 ttgctaacca atggctcaaa ttctcgtoga atttaccatc gaaacctaga agtcctgtgt 120

taatgtctag ctcggttttc gcattgtgtg atgttggatc tccatggaga agtcaatgga 180  
 agctttttctc atgtaaattg acgaatctca caatcactca taccaattgg gtttgcttgg 240  
 agaaacatga atgggggtgat atattcgata tcatcaaacg accgcgttta ttgcgcggta 300  
 acggtgattc taagcttctt atgatcggtg gattgaaatc gacgttttcg ttgaaccggg 360  
 cttgttcaac gattctgata cttaggcttg atctagaaac cttggantgg aaagaancaa 420  
 gtagaatgcc gttanagatg tnccgaaggt ttcaagaatc nagtaaanntt aaaagttttt 480  
 ggaggtggan 490

<210> 4571  
 <211> 510  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-F6  
 <400> 4571

gccacgcgt ccgcggacgc gtggggcctg tgactgccgt tgtcgattcc agcagccgag 60  
 agtttcagct ttatgaatcg ggagtgtttg acggaacttg cggaacaaac ctaaaccatg 120  
 gtgttggtgt ggtcgggtat ggaaccgaga atggtcgtga ctactggatt gtgaaaaact 180  
 cgaggggcca cacatggggg gaggctggct acatgaagat ggctcgcaac attgccaatc 240  
 caagaggcct atgtggcatc gcaatgcgag cttcataccc tctcaagaac tcgtttttcta 300  
 cggataaagt ttcggttgcc taataatatg aactaaatgt atgccatgga acggatcggg 360  
 taagccatta tcgttattcg actttgaagg aaactaaaaa taatggtggc cnattggttt 420  
 ggtttggtaa aaaataagcc attggtatgg gggcaatcca agnttgaacc ttggaaaana 480  
 attccttggg tccaagtgat aataatttnc 510

<210> 4572  
 <211> 509  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-F7  
 <400> 4572

gctctcattc actaactttc tctgcttctc tctatctttc tctgtgcata ccaactctaa 60  
 agtctctcat caatggcggc tcgaaaacta gggtcgttgt tacgtcaata ctttttctct 120  
 ctatgcttcc tcttctcgg ttgcttcttc ttccctaaag acgcagacta taaacaaaag 180  
 agaagaaaga agaagcttag aagagtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nggacgtatt taaaacgagt tttcttatcc acgacaagga tatccaaatc ccgtaaccaa 300  
 acacatccta acgttacttt aacatccgca agatatctca aaactccctc gtcactctcg 360  
 tcnaaccgga taccacaaac caacccgacc cggaaacacg tattcatcag caaacccgaa 420  
 ttcganatcc ctcttcgac gagattttcc cttgnaacnc gtggnggcna aattttccca 480  
 aanatcaatc ccctcgagaa tcanatcgc 509

<210> 4573  
 <211> 514  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-F8

<400> 4573  
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 aaacagaagt caaggaagca aaaacagagg aaatcaagaa cacagagcct gaaacagagc 120  
 aaaaacagag ctgtgttata aacgagaatc tgaagaagat cgctagaccg gatcatttct 180  
 tgctgtgac tgtgatcttg gttcttgtgt ttttggtttt ctttggaaga tctgtagcga 240  
 ttatgtttac ttgtatcgct tggacttgg ttccaacgat tcaagaacag agtggaacaa 300  
 gaggatcatc accgtcttac gcgatgaaga agaaagattt cgctaggaaa ttgagtattg 360  
 aaaacagaac atcgtttaat ccaagaactg gtccgtgatc attcncctcg caagtnngaa 420  
 gaaatttcta antttggn cn cnntgaa aaaaaaccgc gttgaccgaa ccnaaaacnt 480  
 tttttccctt ggtcaaaaag ttttttnggg cccc 514

<210> 4574  
 <211> 507  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E1-E2

<400> 4574

gaaagaagaa acctttttga ttctctttgc gatttctttg ttcaatctct tctcagattg 60  
tgtgaatcgg gtttaaactg gggttttagg gtctctgttt tcaaaagggt accaaaaagt 120  
ttggagcttt actgtagaaa gatttgattt ttcgttgacc cactccgaga ttttcggata 180  
caaatacagg ttttaggggt tttgttgga tggaagagga ttatcaacag ccgagggtta 240  
cgattggtag gcaatcatca atggcgccgg agaagattcc ggagccgtcg gttcactcag 300  
aagaagangt gtttgaggat ggagaagaga tcgatgggtg tgtgagacta atgtatttgg 360  
ctaaatgaan gtgacattga anggattaan ggagcttatt gaantccagg gaattgatgn 420  
caaattnccg gangacattg gattnatncc ggncngncnt tacnngttgg cnggcnttgt 480  
caanggattg gaaangaaag tttgttg 507

<210> 4575

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E1-C4

<400> 4575

tcattttctc ctcttttagcc ttctgacaaa acacaacca cgagttaact tccatggcca 60  
cgcagacacc aaccagcgtc gacagacata gacagtaacc gagctttgct tacgaccttc 120  
cttcccttaa aacctcaaac ctttgaaca cattcaccac gcccatcacc acacacgcgt 180  
acccgacaaa atgatggtaa gacttccagt acctccgga cttattggct gtctttggct 240  
tgaacagcaa agccagtgtt tgcagcgccg ctgctgtgaa agtagctatc ccgaggctcc 300  
gatgtaacct ataggtcact ccaggggaat tatggccgag cacgattcca atggagaagc 360  
caatggttcc tanggaggaa accggggttag ctgtattgct gcgtgggatg tagaancaag 420  
ttgggtccta ntgattgcaa tttgggcgga ggtaaccaac tggtanccgc tnccgccggg 480  
ganggagaaa aacccc 496

<210> 4576

<211> 513

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-C5

<400> 4576

ggatcacttg aacacttana aaaaatattt tgctcttctt tctatatatt tatnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnactcat tttctccgca gagaaaatac 120  
aatccatggc ttctactttt aggctctcta ttagcttcct cactctcatc ctcttctctc 180  
tgtgggtagt ggaggcacac acgtctagaa agttgatatc aatcaaggaa aaagaaggtc 240  
aagatattan tcatttgctc aaagatgggtg aatttgatga cccttcggtg tacatgtatt 300  
tcacactcaa tgatctcaaa ctanggaacc aaattgctga tttacttcta caagaaacga 360  
tcttcaaaag cttcntccca cttctcagan gacancaagc cgatctcagn cctttcacta 420  
agtcaangcc ntgacgncct tctctgancn agntcncnat cagnanngac tcncgtcaan 480  
gggaaangcn ttagggggga cnttggggac ctt 513

<210> 4577  
<211> 500  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-C6

<400> 4577

gaaatagaga gagagagtga cagaggagtg tgtgaacatc ctttttttag tagatttggg 60  
ttttcgagat gccgtattga atcggctacg aatttcccaa ttttgaattt tgtgaatctc 120  
tctctttctc tgtgtgtcgg tggctgcgat ggaggccagt gccggcttgg ttgctggatc 180  
ctaccggaga aacgagctcg ttcggatccg acatgaatct gatggcgggt gcagacccaaa 240  
cctttgaaga atatgaatgg ccagatatgt cagatctgtg gtgatgatgt tggactcgct 300  
gaaactggag atgtctttgt cgcgtgtaat gaatgtgcct tccctgtgtg tcggccttgc 360  
tatgagtacg agaggaaaga tggaactcag tgttgccctc aatgcaagac tagattcaga 420  
cgacacaggg ggaatcctcc gtgttgaaag ganatgaana ataaggatga tgttgatgat 480  
accganaatg ggttcaatta 500

<210> 4578  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-C7

<400> 4578

ggaataacga atcgaatcgg gttgtcga aa cgctaattc aattgagaat gctactgttt 60  
ctgggtggcgg gtttgggtgtt tccgggtcgg gtaatttccc gagacctgag atgtggggag 120  
gtgacctaata tatgggggttt aggccaatga tgaatgcacc aagaggaatg caaatgatgg 180  
gaatgcatca tccaatgggg ataatgggta gaccaccacc atttcctttg cctttgccgt 240  
tgacctgtacc gtcgaatcag aagcttagaa gtgaggaaga ggatttgaaa gatgttgagg 300  
ctcttttgag taagaagtct tttaaggaga agcaacagtc taggacaggt gaggagttgc 360  
ttgatctgat tcaccgtcca accgctaaag aagccgctac tgctgctaag tttaaaagca 420  
aaggaggata caggtagta tactgtagta tttaactaaa gangattgcc tctcaatccg 480  
ggtccanaaa 490

<210> 4579  
<211> 520  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-C8

<400> 4579

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gtcttgatgt ttcttggaat ttgttttccg gtgaaatccc tgatgtgttc gacgaattgc 120  
ctcagttaaa gtttttctta ggtcagacca atggattcat tggaggaata cctaaatcgt 180  
tggcgaattc accgagtttg aatctgctta acttgaggaa caattcttta tcgggtcgtt 240  
tgatgttgaa ttgtacggcg atgattgctt tgaactctct tgatttaggt accaatagat 300  
tcaatgggag gttacctgag aatctaccgg attgcaagcg gttaaagaac gttaacctcg 360  
cgaggaacac ctccatggg acaagtacca gagagtttca aagaacttcg agagcttata 420

ctacttcctc gttaaccgaa atccaagttt gggctaatat ctccttcagc gcttgggaat 480  
acttcangca ttgcaaagaa ctttacgaac tttgggtcct 520

<210> 4580  
<211> 522  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-D1

<400> 4580

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agtaaaactag ttaggtgaaa agcgaaacaa caccacacag agcaatggcc cctgctctcg 120  
ccgttacacg agatctcacc gccgtcggat ctccggagaa tgctcctgcg aaaggacgtg 180  
cttcggttta cagtgaagtt caatcaagcc gtattaacaa cactcttctt ttgccttctg 240  
ttctcaaagg agctttcaaa atcgtcgaan gtcccgttag ttccgccgcc gggaatccag 300  
atgagatagc gaattgtttc cgggtctata tggccaagcc atcactagca ntgggtccag 360  
gtcaggatgc accttcgtcc ggcaccgata tngaagattg gtgttntttt ggcnngnnng 420  
gtcaaggcaa ccttggcnng gnacaaattg tnaanttcng ggacctgntt ngattacctg 480  
cananaacct tgcgaaaaag gtaaccacan tttacggggt tc 522

<210> 4581  
<211> 508  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-D2

<400> 4581

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ggttcctagg attggcttca ggtgaatgga ggtgaattaa gaggctgcaa catcaaatat 120  
tctgactccc taaaaggatt tggcanattc gcttccacct ccactcaagc ttccgatgaa 180  
gttttgcttg ttgttccgct tgatctggcc attacccta tgagagttct tcaggacctt 240  
ctcctgggcc ctgagtgtca gaaaatgttc gaacaaggac aagttganga ccgctttctc 300



atgantctgt tctcacttt ggngcgtctt cgtatcaatt cntcttgga nccgtatcct 360  
 gatangcggg ctactcgatt tggcaacctc nttggatttc tgatgatnaa tcnttttagcc 420  
 taaagggata aanntgttcn cggcaaccga gttacagaag aagnggttgc tcccngnttn 480  
 nccatgacca agggganggt cctgggta 508

<210> 4582  
 <211> 509  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-D3

<400> 4582

gattgggttt gggatcaagt gggcaaacca atatggatcc ttctccgatc gctcagggaa 60  
 atgacgatga cacaccggcg ccggggaatc agtttgccca attcggagct ggatgtttct 120  
 ggggtgtcga gctggcgttt cagagagtcc caggggtgac tcagaccgag gctggataca 180  
 cccaagggac cgtagacaat ccttcatacg gagatgtttg ttctggtacc acaggccatt 240  
 cggaggttgt tagggttcaa tatgatctta acgattgcac ctatgagtct ctgcttgatt 300  
 tgttctggtc taggcatgat ccaccactt tgaatcccca aggggaaatg acnttgggaa 360  
 cccaaataca gatctggaat atactttctac acaccgann caggagaaac tancccgatga 420  
 gtcacttgaa cgtcaccagc aacanattgg nggaagaaag tnnatgactg aaatccttgc 480  
 aactangaaa ttccacanag ctgaagagc 509

<210> 4583  
 <211> 502  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-D4

<400> 4583

gctttttttt ttgtgtgtgc aaaacgtctc tctctctgtc tcataaaatc tcagagaaga 60  
 aacatcgctg ggtcaggtcg aagaaaggag agaaatgagt ggtcacgatt cgaaatactt 120  
 ctccacgacg aagaaggag agatccctga gctcaaggaa gagcttaatt cccagtataa 180

ggataagaga aaagatgcag ttaagaaggt tattgcggcg atgactgttg gaaaggatgt 240  
 ttcatcactt ttcactgatg tagtcaattg tatgcaaacg gaaaatttgg agttgaagaa 300  
 gcttgtttac ttgtatctca taaattatgc gaaaagccag ccagatctgc taatccttgc 360  
 agtaaatacc tttgtaaaag gattcacang attcaaanc cgctgaatcg tgcctttggg 420  
 ctgtncggg acaatggggc tggcattcnn ggttntgaga aaaancccng gnannancca 480  
 aggggntccc cctccaaaaa gt 502

<210> 4584  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-D5  
 <400> 4584

gcaccgatgt aaaggtaaga ggaagagatt tgattgaatg actcattcat tgtagtttt 60  
 tggctatgtt taggattatg ttctaataag tgttcttttg ctgttttcag atgagtccta 120  
 cagatgaaga tgaattctct atttacaac agagaagcac tcatatgaga aaccattctt 180  
 tagaagagga tttggaggct gagaagacca tttcctttca agataagggt gatccaagtg 240  
 gagaagaaca aactctgatg agaaatgagt ccatctcaag aaagcaaagc gatctcgaga 300  
 caccggaaaa gatggaatca tttagcacat ttggcgatga aatccaatcc gtgggacnn 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
 nnnnnnnnnn nnnnnnnnnn tcaatgcctt cagagcaaaa ctcaactaga aggagaagaa 480  
 n 481

<210> 4585  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-033-Q1-E1-D6  
 <400> 4585

gcaccgttct gattactgat tcttcattga cggtaggagt caccactttt ggcggcgatt 60

ccttgttctc tatttttttt gcacaagcaa catttagctt ctgcaaactc cagttcatct 120  
ctcaaccctc atatcgccgt gttttctcgc tctagtaccg cgagctcgga cgaaccagga 180  
agcaatccgt taatctagaa gcggtgttga gaagatgacg attacatcaa atatctctgt 240  
acagaacgat aacctcggtg ttcaaggga gactatcctt accaaaatcc ctgacaacat 300  
tattcctaact ccggttaccg gtaatggatt cgtttccggt tcatttatag gcgcgacggt 360  
tgaacaaagc aagagtcttc atgtgttccc catcggtgta ttggagggtc ttcggttcat 420  
gtgctgtttc cggttaagct atggtggatg actcaganat ggaaactgtg gaaagaaatc 480  
ccttggnng 488

<210> 4586  
<211> 504  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-D8

<400> 4586

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tcaaggaatt gaatggccag tgaatcagat gcatcgagca ttgctactct ttctgtgct 120  
cgctgcgaga agcctgcaca tcttcagtgt ccgaaatgca tagacttaaa gcttcctcgt 180  
gaacaagcct ctttctgcac tcaagaatgt ttcaaggcag cttggagctc gcacaaatca 240  
gtacatgtga aagctcagct gtcttcaatc ggtgatcaga actctgatct tatttctcaa 300  
ggctggctct attgctcaa gaaaggccag gctagaacac ctaagcttcc acactttgat 360  
tggaactgggc ctctaaagca atatcccata tctaccaagc gtgttgtgcc tgctgagatt 420  
gngaaacctg actggggcaa ntggatggga ncccaaaant tgaaaccgaa nagtgnntta 480  
anaacagggtt gtttaggnat aaaa 504

<210> 4587  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-033-Q1-E1-C1

<400> 4587

gctcacacaa gaaaacaaaa tcatgtctcg atttgctatc ttagtaacct tggcacttgc 60  
cattgccact gtttcggtgg ttatagctca agtcctccg gagaaacaat tcagagtcgt 120  
caacgaagga gaattcgggtg aatacatcac tgagtacgac gcaagttaca gattcatcga 180  
atcatcaaac cagagcttct tcacatcacc attccagctc ttgttttaca acactacccc 240  
tagcgctac atcttagctc tccgagtcgg actcaggcgt gacgagtcta ccatgcgttg 300  
gatatgggac gcgaatcgca acaaccccg cgagagaaac gctacactct cactcgggcg 360  
ttaacggcaa cctcgtctc ggctgaagct gacggacgaa tcaaattggca gactaacaca 420  
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<211> 392

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-032-Q1-E1-A5

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tttggttggt ttaagaaagc aacagagaga gagagaaaga ttgaaacttt ggatgtgaat 240  
ttagggtttt gtgaattggg gaaaaagcaa tccagagatg gctcaacaga gacaatttca 300  
gatggaaggt ggtaataata atacaacaga taccaagttg acgaaaatct ttgttgagg 360  
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<210> 4589

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-032-Q1-E1-A8

<400> 4589

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ccgtcacgtt cccataaccg tctcaacttt caaacgtatg tgtacttcat cttccacatc 300  
ttacaaaaac acacctgtcc acaaaatctt ccctggtcag tattttctcg ccggaagaca 360  
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<211> 443

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-032-Q1-E1-A9

<400> 4590

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gctaattcagc tacctcaatt cgctccttct tctgttctcg cttcatcaac tgttgagaag 180  
aagttggaga gtttgctgc tatggttggg ggtgtttggg cagatgatag aagtttacag 240  
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gaagtgattg atgctggtgt tgtgcctcgg tttgtggaat ttctcactag agaagattat 360  
ccacaacttc agtttgangc tgcttgggca ttgacaaaca ntgcttccgg ggacttcaga 420  
gaatacaaaa ggtgggtcat tga 443

<210> 4591

<211> 431

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-032-Q1-E1-B12

<400> 4591

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 gtaacaggtc tgtaggggaag actcagatga acgagcaatc ttccagaagc cttttgttt 180  
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 acctgattga tcttgccggg agtgagcggt tatcgaagag tggatcaacc ggagatagac 300  
 ttanagaaac tcaagcantic aacaaaagtt tgtcgtcgtc angcgatgct atattcgcct 360  
 tagcaaaaga aaggaaagat catgtaccaa ttccgaaact caaaagctca catatcttct 420  
 caagccntgc t 431

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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-032-Q1-E1-B3

<400> 4592

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 ctttgagtaa aatcgacggt ggacttttcg ccgtgaagtc gatagatctc gccacgtgct 180  
 ttcttcttca agcagagtcg ttagagaacg aaatcggtat tctacggtcg atgaagtctc 240  
 atccaaacat agtgagggtt ctcggtgatg atgtgtctaa agaaggaacg gcgtcgtttc 300  
 gaaatcttca tttagaagta ttaccgggaa ngtgacgttg ctaacgggtg aatcgttaac 360  
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 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-C1

<400> 4593

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 ggggg 425

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 <212> DNA  
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 tgtagggaa gaagattgga ttgtattttt cagctgcttg gtgtggaccg tgtcagcgg 240  
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 tgtttgtgtc aggtgatgaa ggatgaaaga atcatttgga gattatttca gaaaagatgc 360  
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<210> 4595  
 <211> 427  
 <212> DNA  
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 ttgcttatcc gagcagagtt tccgggtcaa gcagccggat caatcgccaa gatccaagtc 240  
 gacgatgacg tcatttcctt agacggcatg gatccgctcc gtacagaaac tgaaaccgat 300  
 gttaacggtc ggatcaggct caggatccga cggtcctgat catccgtacc tgattctggt 360  
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<210> 4596  
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 aagggaatca cacggccaga aatgattata cctgagtcgg gtcattcggc ttatgataag 180  
 gcggccagat attttaaaat caagttgtgg cgagttccag ttgacaaaga cttccgagct 240  
 gatgtgaagg caacaaggcg gcatattaac agaaacacca tcatgattgt tggatcagca 300  
 ccaggattcc ctcatggcat cattgatcct atcgaggagc ttggtcaact ggctcttaac 360  
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 aaan 424

<210> 4597  
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 tccaaagaat cgaagcagtt gttctgggag tttactgatg cttggcttgg ttccgatgga 240  
 gatgattccg attgtaaatc agctagagat tgtcttctta agatatctaa acaggcttcg 300  
 actctgtag ctcaaccagt ggcttctctc ttccatttct cacttactct gaaatttgct 360  
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 gg 422

<210> 4598  
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 tagttcggtg ggaacttttt ttacagctt tggagtaact acctttcatg gtttttggtt 180  
 ccaacaatgg ggtcaaaatc atttggaaat ctattagact tggcctctgg ggatcttttg 240  
 ngacattcct cagactccga gatattctcc aagagtgatg actgttcctg gcattatctc 300  
 tgacgttgat ggatatggaa attagtgatg gcgaatcana tgtcanttca ntaccttggc 360  
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 cnaact 426

<210> 4599  
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 <212> DNA  
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aaagaaccat atcccatttt tcgatgttgc ataccagggc tttgctactg gaagccttga 180  
tgaagatgca gcatctgtga gattatttgc tgagcgggga atggagtttt ttgttgcnca 240  
ntcatatagt aaaaatttan gtttgtatgc ataaagaatt ggggcaatca atgtcgtgtg 300  
ctcctcagct gatgctgcta caaagggtcan agagncagtt gaaaangaat gctcggccta 360  
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tgttaac 427

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caaagcgaag atggtgaacg ctatggtgga gagagcgacn agcgagatgc tgatcgggcc 300  
tgattgggct atgaacctcg agatctgtga tatgctcaat agcgattcag cgcaagcaan 360  
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<210> 4601  
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<212> DNA  
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cctcttaaag tttcaatctt tagattgaga gagaaatttg aagtaattta aggtaacaag 240  
aagagaacaa ttttgttctg ttatgggtggg ggcgatggca aacaatggaa gaatccggtc 300  
agcttttccg gtgactaatg ggtcaaaaga tctgacgccg aacagtgtctc cggcgagtac 360  
aancggattt gaataaggnc cctgttgagt tcacaaggaa gaaagacgtt gaaactcctc 420  
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<212> DNA  
<213> Arabidopsis thaliana  
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accgagaccc cgtagtagc ggcgagcgag agcggatttg ggattttaag aaaaagaaag 240  
acgaagcttc gttccaaagt gttcattctt ttttcgccaa ggtttcattc gatttaatgt 300  
ggattgggat gatggaaaaa ccaacaagcc cctcctcttc antccaagtt acttcctacc 360  
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<210> 4603  
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<212> DNA  
<213> Arabidopsis thaliana  
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<223> Clone ID: LIB22-031-Q1-E1-F12  
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 cccaacatag agatatagag ctgttatcgt ctgtctttca tggcggagca gaggtgatcg 240  
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 gagaagatca aggtgatcaa tcccgttggt gaaatgggtg gagacgaaat gactccaagt 360  
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<210> 4604  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 gctaactcaa acctctgna tgttccgttg naagatntcc acaaaggaat tnacatcata 420  
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 <212> DNA  
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 <223> unsure at all n locations  
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atttgtgaag catttgctca aatagagcag cagcctaaca tatatgatgt tgttcatggt 180  
aaatactacg acgaggatcc ttgaaactg gatgttgta ttagctttcc agatcatggg 240  
tttcatcttc gatttgatcc ctgggtctca gaggttacgg cttgttgaaa tatttgatgt 300  
caagcggctt cagatgcgct acgccacttc tatgattggg ggtccatcaa ctctggcaac 360  
ctttgtggct gtttaagcac nttttggacc aaacnttccc tggggaat 408

<210> 4612  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-032-Q1-E1-A10  
<400> 4612

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gtcacggatc ctttcagaa agctaagaga gagttggata atgtggaaat caaagaaaaa 120  
cagaagaagc agaagaacca aaatgaaaca tctgagaagg aaactaaaaa attcagcacc 180  
gtttacgaaa agtttaatga tactattaaa gaactagaca gggtttctgg aacatgtccc 240  
atagacctg ccattccatt cagccccca aaggaaaagg tggaaccgat atatcacaat 300  
gagtgaatt tcgatgataa agctcatctg ggaagtatct gacagcggcc cttttgtaca 360  
aaggattttg atacttccca tccaagggca tgaaatcaag acagcaattg tgggatcatt 420  
tcctcntcca tgttggtaaa 440

<210> 4613  
<211> 525  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-032-Q1-E1-A11  
<400> 4613

ccgacgtacg gtaangaatt cncgggcncg gacagaacan acaacgaaga aaattcaaaa 60



tcttatttca attcaacgta tactttcctt aaattaggaa tttggttttc gagaaaattg 120  
 agatccgaat aactatgggtg agactcaaga cgagtctctg ggttcttctc cttgccctcg 180  
 tttcaattca gttaaagtgt tcgtttggat ctgaatcaag taaagtagct tatgtcacac 240  
 ttttgtatgg agatgagttc ttattangag ttaggggtatt gggtaaactcg attcgtgaca 300  
 ctggatccac taaggatatg gtcgctttgg tttctgatgg tgtctcagac tactctaaga 360  
 aagtttactc caaggctgat gggatgggaa agttagaaga aagaattaag ntttactggg 420  
 caaaatccca aaatcaaagn ttcaatcccg aactaagggt tccnnggggg gtggttttaa 480  
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<210> 4614  
 <211> 424  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-032-Q1-E1-A12  
 <400> 4614

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 cttcttctcg aagatttgat ttcattttcc tctctttcag atccctattc tcatggcttc 120  
 tggatcttac tgggtgctata gttgtagccg attcgtttgg gtttccgatt caatctcttg 180  
 ccctgattgc gacggtggtt tctcgaact catccaagag cctctcgatt tcacaccttc 240  
 cgattnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nntccgcttc tatgcacgcc gataacagtc ccactcctac 360  
 catcgttact cgtacacgaa agcaatcgat ctctaaacc aagttantgt tctccgtgga 420  
 ttct 424

<210> 4615  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-032-Q1-E1-A3  
 <400> 4615

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tcagatcaag acgacgacgt tttaagcaac aagatgcagt taggtcagtt tatctacgtt 120  
gatcggcttg atccagggac acctgttccg atcatcaaag gtgctagacc gattcccgga 180  
cgacatcctt tacttggaac tctgagcca ttgatgagta caagaggaaa gattgagagt 240  
tcgagaccta gaagaggttc ttgggggtcaa aacggtgacg tttcgtctcc gtttgtgtta 300  
aagcctgcac ctttggtttt tgatcagtgt acgccggcga aacatangct tggtaacgggg 360  
agatttatgg cggcgtctcc gaatgttatg actagaggga ggtcacctgg gtgnggttaa 420  
atgttcttaa ggtgganggg cttttgtcca aaaatggggg ggaatn 466

<210> 4616  
<211> 519  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-031-Q1-E1-F11  
<400> 4616

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaac 120  
aagagaagag aagaaccaag ttttcttcga aaggattgaa ctttgtttct ttctcttcag 180  
ctacaacaac caaaaaatga tcaagctttg cttcatgact tctcatgggt attcaatccc 240  
tggccttggt cttctcaag acctctgcaa caccgaaatc atcaagaata gccggtctca 300  
tctggtgaat cccggagcaa gacaagagat catacctgca agctccttca atctgaatac 360  
agaactcttg gaaccatgga aaccggtttc ttcatttagc caattcgtgg agattgattc 420  
agccatgatg aaaacctctg ctcatgggat gttcatgaag aangnaacaa gaatctctga 480  
atttgagcct tgggaatcgc tgaaaagttt gcaagacaa 519

<210> 4617  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-031-Q1-E1-B2

<400> 4617

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ctgttcacaa gcttgaacaa gaatctgggt ttttcttcaa tatgaagtat ttgaggatg 180  
aggttcacaa tggaaattgg gatgaggttg agaagtatct ctctggtttc actaaagtag 240  
atgataatag atactctatg aagatattct tcgagataag aaagcagaag tatctcgagg 300  
ctttggataa gcatgatcgt cccaagggct gttggatata ccaatgaagg gatttgaaag 360  
tgtttcaaat tttaatgaag gagcctttca agggaaataa cacaactcct tgacattggg 420  
ngaacttccg ggaaaatgaa caattatcca agtttgggga caccaagtct gcaanaacga 480  
tt 482

<210> 4618

<211> 484

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-031-Q1-E1-B6

<400> 4618

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tctcctttct tcttctctct tcattcgtct cctctgttga gtggctcgat atcgattcct 120  
cagatctcaa agctcttcag gtcacgaaa cagagctcgg agtcaacagt caacgttctt 180  
cggccagtga tgtcaaccct tgcggtcgcc gaggagtttt ctgcgagaga cggcacnctg 240  
ccaccaccgg agaatacgtt ctccgtgtca cnaggctcgt ctaccgatnn aggagcttga 300  
cggggactat cnetccggtc atcggaatgt tttccgganc tcaaaggga ctttaacttg 360  
tcnaataaac aatttggcaa acgntgggtc cggggtggga taaccttaaa nctgttaagc 420  
aaacttnaaa gnttcttga tnntccggaa aaataaaatt ttcccgtca agaattccgg 480  
ggaa 484

<210> 4619

<211> 492

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-031-Q1-E1-B7

<400> 4619

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tctagctcaa ccatggcggtt gctcgtcgag aagacctcaa gtggccgtga atacaaggctc 120  
aaagacatgt ctcaagccga tttcgggtcgt ctcgaactcg agctcgccga ngttgagatg 180  
cctggactca tggcttgtcg taccgaattc ggaccttctc agccattcaa aggcgctaga 240  
atcaccggat ctcttcacat gaccatccaa accgccgtac tcatcgaaac cctaactgct 300  
ctcgggtgctg aagtcagatg gtgttctctgc aacatctttt ccactcanga cnagnccgcc 360  
gcagccatcg ctcgngacnc cgnogctgtt ttcgcctgga anggtgagac ncttcaggag 420  
tactggtggn gtaccaancg ttgcnchnaaa ttgggggtcca ngggngggtc ctgatcggat 480  
ggttgatnac gg 492

<210> 4620  
<211> 512  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-031-Q1-E1-C1

<400> 4620

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aaagctcaaa agacaaagaa actcaataat gtctatgaga agctctcttg cgaagggttc 180  
gttgatgata agattgaact cgctctctcc tctcttagag atggagctac gtttgaggct 240  
gcacttgatt ggctttgttt gaatttgccg agtcatgagt tgctgtgaa gttttctact 300  
ggagcttctc gttttccttc cacaggaggt tctgtgggtg tgatatcgac ctcacgggac 360  
gattggaatg attcaactga cccttaagtc agggtaaagg aaaaggaact tgaanttttg 420  
gtnctgttaa aggaaaacaa gannaagaan ataccctaan tccgaaaaat naaccoaagc 480  
tgaattgata cgnaagtata tgaataaaca ag 512

<210> 4621  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-031-Q1-E1-C12

<400> 4621

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tcngaaacat tcttcgtggg gaancanaat ggggttgagt ttcgccaagc tgtttagcag 120  
gctttttgcc aagaaggaga tgcgaattct gatgggtggg cttgatgctg ctggtaagac 180  
cacagtcttg tacaagctca agctcggaga gattgtcacc accatcccta ctattggttt 240  
caatgtggaa actgtggaat acangaacat tantttcacc gtgtgggatg tcnggggggc 300  
angacaagat tccgtccctt gtgngacac taattcaaga cactcaangg tccaaacctt 360  
ggttgttgat aacaatgaca gagacagagt tgttganggt cnanaagaac tccaanagga 420  
tggctgnatn gnggannaaa ctgccttgat gcngtgttgc cntgtgtttg gcaaca 476

<210> 4622  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-031-Q1-E1-C4

<400> 4622

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ttctctttct gcaatggcga gattagtgcg tgtggctaga tcctcctccc tctttggctt 120  
tggttaaccgt ttctactcta cttcagccga agctagccac gcgtcgtcgc cttcgccggt 180  
tcttcacggc ggcggagcta gcagggttgc tccgaaagat agaaatgttc agtgggtggt 240  
tttgggatgt cctggtgttg gaaaaggaa ttacgctagt agactatcaa cccttctcgg 300  
cgttcctcac atcgccaccg ggcgatctcg tccgtgaaga gcttgcattc ccgggactcc 360  
cctctaaaaa ccaaccgna attgtnaatc aaggaaaatt ggnttcctga atgaaatnaa 420  
tgtagactta atgtncaaaa aacttnaagn tgggtgaanct aaaagngaag caagggttaa 480  
ccttgaaggg nttcctcgta acaag 505

<210> 4623  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-031-Q1-E1-C8

<400> 4623

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 tctgttttcag cctctattgc tctgtttaac aagttctcaa cggccggaat cgtcgccggg 120  
 attctcgcca ccggagttat tgtgaaacgg tgaaaatggg tttttgattt tactgggttac 180  
 ttcattgttc agtgcaaagt ttggattgat ttcactatgg aggaagtagc agctaagggt 240  
 gaggaagaaa ctgtggaaac caatgtagat gcagtgaaag aggacaatgc aactatagct 300  
 aatgaaagca gaagcccaga gagtgtttct gcagtgtctg tgggtgtcaaa tcgagctgct 360  
 tctactaaaa agaaaccagt tattaattcg aatttaataa agccaactgc gtcctcctca 420  
 atacgggtct cgggtactac gcctgtggac tatcaaggag aaata 465

<210> 4624  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-031-Q1-E1-D11

<400> 4624

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 ccttgatcgg ggttatgcaa caaaggatgc taatacacgg ttttctccaa ccaacctggg 120  
 tgaggcgctt gtgatgggat angatgacat ggggtatgaa ctttggaac caaatctcag 180  
 agcccttatg gaacatgata tgaatgaagt tngcgttggc aggaagacca aagctgaagt 240  
 tcttgaaaca tgtttgcagc aaatgaaanc ttgtttctta natgcaagag tananaaatc 300  
 anagctccta naanactgn canttttctt tgaaagatct aanaaactg atnanagtga 360  
 aagtcnaca gctggtnaat ttgtcccgac gattcaatcn ccggaaagga tccacntatg 420  
 gcacncagga aaaacccggg atggcaattt cacgggttgg gtgcatgaaa t 471

<210> 4625  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-031-Q1-E1-D12  
 ,  
 <400> 4625

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 tccctgttca atgttggttca gacagggacg gtaaaanaag tatccacatg tgatgaaagt 120  
 ggcttcgttt tacagcatag tcgggacgat ccaatgtcta ctattctcgt tanttatgga 180  
 aagagacctt agtgcattgga agatccaacc taacttcgat cttatcncat tatcgccaac 240  
 gggnaacant cggangtgta ntacgancan gtgtacacgt aaagtgcacc caagatgana 300  
 agnccttaat acctgccatt ggtcaaacc tttgggcac ctttgggcaa cantccttgg 360  
 taccaacntc ctctcaaca atcctcacna anggcaatgt gttaggaaca accatacctg 420  
 gttttgggat atttcaaaan tgtccctggg gacaattgga nggaaaacca aagaaa 476

<210> 4626  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-031-Q1-E1-D3  
 <400> 4626

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 ttggcttttg aagcaatact atggaaggaa ttcagcatcc tatacctcgc actgtcgaag 180  
 aggttttttag cgactttcgt ggtcgtagag ctggtctcat caaggctctc tctactgatg 240  
 tacagaagtt ttaccatcag tgtgaccctg agaaggaaaa cttgtgtctt tatggacttc 300  
 caaatgagac atgggagggt aatcttcccg ttgaggaggt ccctcctgag cttcctgaac 360  
 caacgttang catcaatttc gcaagggacg gaatgcaaag aaaaagactg ggattttctt 420  
 ggttgcantt cacaatgatt catggcttan ctctgttgca ttttact 467

<210> 4627  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-031-Q1-E1-D4

<400> 4627

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anctgcaang ctactaggag cgcgtgataa atacaagttg cctagattaa gtctaangtg 120  
cgagtcagtg ctctgcaagg atatatcagt agattccgtt gcaaataattt tggcgcttgc 180  
tgaccgttac aatgcttccg ccttganatc cgtttgtctg aaattcgcag cagaaaatct 240  
catcgtctgt atgaggtcag atggggttga ttatctaagg gaacactgcc cgtcacttca 300  
gtctgagctt ctganaacag ttgcgggttg cgaanaggat taagcggagg aggagggaga 360  
acgaagaacg tatggggggc aattttctca aacggtggan ctgaaaacaa aacngganga 420  
caancacaaa ccttggggga agaatatcaa tggggg 455

<210> 4628  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-031-Q1-E1-D5

<400> 4628

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aacactcgtt tacgcgtagc cganataant ttccaaaaa cccatatccg aaaaagtcga 120  
tatatttatt gaatttttgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnctaa gtctctctgt tgtcttcctc tttgtcttct 240  
atctcgtgc ggtgacttca gatctagagt ctgaccgng agctttacnc gctgttcgta 300  
acagtgnccg tggccgtcct ttgctatggn acatgagtgc ttcgtctcct tgtaattggc 360  
acggagtcca ctgcgatgcg ggtcgggtca cggctctccg attaccggat ctgggtttatt 420  
cggttcntta ccantcgtg gtattggtaa tctaaccag cttangactc tttctct 477



<210> 4629  
 <211> 489  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-031-Q1-E1-E1

<400> 4629

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 aatgtctcaa gattctgcaa ctactactcc gccgccacct ttaacctccg acgtttcaat 120  
 gccttccggt gaagaagatg agccaaagca tgtaacatcg gaagaagagg caccggtgac 180  
 ttcggagaca aatctgaagc tacctttgat gccggagcta gaggagtcaa atcatacggc 240  
 ggaggttgtt tcagagaagg tgacgccgga gacgatgact ttggagtcag aaggtctcaa 300  
 ccacgcggcg gagggattca gagcaagaca catgaagtga cgccgggaga caagagactg 360  
 cgaaactaga aggttctcaa accacacggg nggganggat tcaagagcaa gacacatgaa 420  
 gttgacgccg gganaaaaga nactggtgaa atcaagaagt ttcccaaacc aacgttggcg 480  
 ggagggatt 489

<210> 4630  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-031-Q1-E1-B10

<400> 4630

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 ggattgttgt tgttcgtcgc tatattgctc gtcttgcttc agtcttcac ttgtctgatt 180  
 agttctccaa gttctatcat caatccttct aaagtcaaac aggtttcgtc gaagcccagg 240  
 gcatttgtgt atgaagggtt tttgacggac ttggaatgtg atcatctaata ctctcttgcg 300  
 aaagagaatc tgcagagatc tgcggttgct gataacgata atggcganaa gtcaaagtca 360  
 gtgatgttcg taccaactcc ggcactttta tctccaaaag gaaaggattc tantgtttcc 420

ggatcgaag gacaagctct caacatggac atttctccca aaagaaaacg

470

<210> 4631

<211> 440

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-029-Q1-E1-G10

<400> 4631

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cagacgacgc aacatcaccg gcctcacatc agcagtctcg tcgtacgtcn ctccggaagc 120

aacgacagag aagacggccg caacgccgcc ggagactatg agcccgga agtctctctg 180

gaccggcctt cgtttaatcg ctccggtcgg tataaggggtg acaatggtgg acatagaact 240

cgggcaagtt ctagctcacc aggccgtcgt ggatatgaag atcacaagca tggctctgat 300

cttaatcatt cangcgttcc acctcgtggc cgtgagttaa agcacanaan ggaaacactg 360

ggagacacaa gagactaatc ccaacccttt agctagaagg tggagctggt gctccgtccc 420

ttatncgaag aaggttaaat 440

<210> 4632

<211> 492

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-029-Q1-E1-G11

<400> 4632

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gaaggacgca gacggtcatc cttgttttgc tcttgtaaac aaagctactg gtgaagcaat 180

gaagcattct gtgggagcta ctcatccgtg gcattctgatt cgatatgtgc ctgataagct 240

tgacgagtca gtactatgga cagagagcaa ggatttttggc gatggatatc gcacaataag 300

aatggtaaac aatacgaggc taaacgtgga tgcatatcat ggtgacagca aatctggtgg 360

tgtncgttat ggnacgaata acctcctnctn ggaatggaaa naaaggnaaa aacaactccg 420

gaaaattctt cccttcctga aaaattggcg tcctggaatt ggtaaaaagt tccctttgtg 480  
tgtgctgtta ng 492

<210> 4633  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-G12  
  
<400> 4633

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gaanangttg tggaatcaga aggagaaaga gagtttgaac attgagaggt actcagattc 120  
gttgaagccg aagatgaagt ctaataagaa tggatctttc ttgattttc ttgttcttag 180  
acctgataac ttccctaaag aacttcttgg agatactcga agagaacaac ggctgtgaa 240  
gagagctaaa tggagtcaag aagctgattt gcagaaattg gatgtgtttg agaagcttga 300  
agctaagttt aagggttgaag gcaaggaaga gaaagaagaa ggggaagatg atgaagaagt 360  
tgtggaatca gannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
cc 482

<210> 4634  
<211> 510  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-G2  
  
<400> 4634

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aaaaannnnc attngggaaa cctttgaaat gtnacngga ttanatattg ctctcgacga 120  
catgatcgcc aagaaccgta agtctcgtgg tggagccggc cccgctcgtg gaaccggatc 180  
cggatccgga ccgggtccga ctgcgccgaa caaccctaatt cggaatcaa cccgatctgc 240  
tccataccaa tcagccaagg cgccggagtc cacctggggt caccgatgt tctccgatag 300

atctgaagat caccgatcgg gacgttcctc cgccggaatc gaaactggga accaaagctc 360  
 tacatttcca aatttgggat tacggtgtca tgaaacgaaa gacatcaagg gaactgggtt 420  
 gcctgaaatt ttgggaaaac tttaaagcgc taaacaaat ttcaaatttt gganaaaaaa 480  
 ttgggaaaan tttaaagggg gaaactggcc 510

<210> 4635  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-G4

<400> 4635

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 ggaccgagag acaacattct tgagttcttt gagagctttg ggttcaagtg tcttgagaga 180  
 aaaggaacag ctgatttcct gcaagagggt acttccaaga aagatcaaga acagtactgg 240  
 gtgaaccgga acagacctta tcaactacatt ccggtttcag agtttgccag tagatacaag 300  
 agtttccatg ttgggacgaa gatgtctaac gaaacttgca gtaccgttcg ataagtctcg 360  
 cgccacaaa gcagctcttg gtgttcgata agttctctgt cccaaangag ggaacntccc 420  
 aaagaact 428

<210> 4636  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-G6

<400> 4636

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 cgataacagg aaacaaagat acagtcagta cttagtagtt tgagggcacc tacggaaagc 180  
 aagtaatact acagagggta gacgttccag tgcttaatga tgaaacatca tcaagtacaag 240

caaacgtgtt tttcatcata caccgtatca ctttcacaag tggctgcagt cattccgcag 300  
cataagggag attgacttcg agaagcaaca tcaactttgc gcaaaaggan canggctacc 360  
agganatggg ggactcccaa ttgcnacncc tttcaggana natcccctta naanggaaag 420  
gccttttcaa aaccaagg 438

<210> 4637  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-G7  
  
<400> 4637

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tctcattttc cttectcctt ctctatctct catggtcttg ggcttgctct ctctgtttat 120  
ctttatccca atcgatcatc gtagcaaata tggctgtaag ctcgctaggt acatatgcaa 180  
gcacgcgtgt aattatttcc ccgtctctct gtacgtcgag gattacgaan ctttccagcc 240  
taatcgtgcc tatgtctttg gttatgaacc acattcgggt ctaccgattg ganttgtngc 300  
tctttgtgat ctacanggt ttatgcctaa tcctaacatt aaagttcttg caantagtgc 360  
taaattcaaa attccctttc aaaggatata nnggaaatgg ttagggnaaa cggcnnnctt 420  
taaggaaaaa tttaaattcc ctttgg 446

<210> 4638  
<211> 516  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-H12  
  
<400> 4638

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nanacnacc tntccnnc caaaacnagc gagaaggagg aagaaganga ggaagtcctt 120  
gagaaatfff cgancangag ggagatcatt ancattcata tcggacaagc tggatttcag 180  
gtcggaaatt cttgttggga gctttattgt ctcgaaatg gtatccaacc cgatggcacc 240

atgcccagtg atagtactgt tgggtgcatgt catgatgcat tcaacacatt ctttagcgag 300  
acaagctcag gccaacatgt gcctccaanc tgtgtttctt gatctccgaa ccaaaccgtc 360  
attgacgaac ttacgaaacc gggacttaca agacaagcnt ttccaatccc cgaagcaaac 420  
nttanctctc tgggcaaaat gaaagaatgc aancccaaat naccttttgc taaaaanggc 480  
caattaacaa ccggttttgg gaaaggggaa aaattg 516

<210> 4639  
<211> 502  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-030-Q1-E1-A1

<400> 4639

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ccctttgctc tcatgttcga gaggaaaatt aggccaaga tgacactagc aatattctgg 120  
aggcttcttg ctcttggaat attagagccc ctcatggacc agaatttgta ctacatagga 180  
ttgaaaaaca catcagcatc gtacacttct gcctttacca atgcacttcc cgccgtcacc 240  
ttcattctcg ccctcatttt caggcttgag acggtgaact ttagaaaggt ccacagtgtt 300  
gcaaaagtgg taggaacggt aataacggtt ggaggagcaa tgatcatgac tttgtacaaa 360  
ggtccggcca ttgagattgt gaaggccgca cataattctt tcaacggtgg gttcgagcaa 420  
caaaacccaa ccgggcaaca attgggtccc ttggaacata accaattatg gggcaantac 480  
cccnacaatg gggctgcttt ct 502

<210> 4640  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-030-Q1-E1-A2

<400> 4640

gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntttatagg atcaatcgat 60  
caaggaacca ccagcaccag attcatcatt tacgaccacg atgctcgtcc tggtgcttct 120

catcaagtcg agttcactca gttctatccc gaagctggat gggtggaaca cgatccaatg 180  
gagatactgg aaagtgtgaa agtgtgcatt gcaaaggctc tcnacaaagc cactgccgat 240  
ggacacaacg tcgacggtgg cttgaaggcc attgggctta cagatcagan agagactact 300  
gttgtttgga gcaaatccac tggccttcct ctccacaagg ctattgtccg ggattggatg 360  
ctcgtatacaa ctccatctgc aaggagacta agagaaaang aactccccgg gaaggaaaat 420  
tcccaatttt gtgggantcc ttgccgggtt gccaaa 456

<210> 4641  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-030-Q1-E1-A5

<400> 4641

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agtataaaac agtcagaaga tgtcactgat gcaacaaagt caaagaactc acatgcgatc 120  
tgtgagcttg ggctgtcaat aatcaatcac ttaactcaga aagagcctga tctacaaggg 180  
gaaatcacac ctgtatcgct gcctccgacg ctgtacaaac cttctgaaaa agttgaagga 240  
gacaagtctc aggtagggtga agaaaaattg tggctagctg atgagactgt cctgttacac 300  
ttcagggtc tcaagttgga gagtcatgct gatgcatctg tgatcccca aacttcagaa 360  
aatgagggtta tgattgatgg ggaaagtgat ggaaatgaaa ttcctctggg gtaaatagta 420  
nagcgtttga nactcagga accaagacta gaaagggcaa aaaggataaa tccgtccagc 480  
tgaa 484

<210> 4642  
<211> 494  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-030-Q1-E1-A6

<400> 4642

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tttttttttt tttggagtta gaatgctatg aattccaaac cagagaagat tcaaataana 120  
 cagagactaa aaaggctgtt caaacagtaa taattcttgc acatgaacac taaaccagaa 180  
 cgataacagg aaacaaagat acagtcagta cttagtagtt tgagggcacc tacggaaagc 240  
 aagtaatact acaganggta nacgttccag tgcttaatga tgaaacatca tcagtacaag 300  
 caancgtgtt tttcancata naccgtatca ctttcacaag tggctgcagt cattccgcag 360  
 catanngana ttgaentcga naancagcat caacttttgc gncaaaagga ncaagggcta 420  
 caaggaaaat gggggacctc cccaatggct nacgcccttt caagganaac atcctccctt 480  
 agnaaggag aagg 494

<210> 4643  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-030-Q1-E1-B1  
 <400> 4643

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 ggtacattta aaactgtggc tgctgcgggt gccgcggccc ctgaaaatag taataagagg 120  
 tatgtgatac atataaaagc cggagtttac agagagaatg tggaggttgc taagaagaaa 180  
 aagaatataa tgtttatggg agatggtcgg acgagaacta ttatcaccgg aagtcgaaac 240  
 gttgtagacg gtagcaccac tttccactcc gccaccgttg ctgctgtcgg cgagagattc 300  
 ttagctcgtg acatcacttt ccaaaacaag gcggtccgt cgaagcaaca ancngtggct 360  
 ctcccttggt ggntccgaat ttcccgnct tcnanaattg cnaaatgtta ancttaacaa 420  
 ggacactcct nataacgttc antcctaaac c 451

<210> 4644  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-F9  
 <400> 4644



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 ttcaatctcc gataatggaa ggaaccggcg ttgtggcggt gtacggtaac ggtgcgataa 120  
 cggaggcgaa gaaatctccc ttctccgtga aggtcgggtt ggctcagatg ctccgtgggtg 180  
 gtgttatcat ggatgtcgtc aacgccgagc aagctcgat cgccgaggag gctggtgctt 240  
 gcgccgtcat ggctttggag cgtgttcctg ctgatatccg cgctcaagga ggcgtcgctc 300  
 gtatgagcga ttcacaaatg attaaagaaa tcaaacaagc cgttacgatt ccggtgatgg 360  
 ctaaaggcta ggattgggtc attttcgttt gaagctcaaa ttctttgaag caantggnat 420  
 ccaattacat ccgaataaga gccaanntt ttgactcctt gccgaag 467

<210> 4645  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-D11  
 <400> 4645

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 gtgagccttg gcctattcct tanaggcttc ccactgcttg caaactgtgt ggaaatcggt 120  
 ctaccaatgc tgattctggt gatcatcaca cagcaatatc ttaaacaatgc attctcaagg 180  
 atttctatga ttcttgaaag atatgcttta cttgtttgcc tggctatcat atgggctttt 240  
 gctgctatcc ttactgtttc tggtgcttat aataatgttt ctaccgcaac aaaacanagt 300  
 tgtcgaactg atcgtgcctt tctaagtcac caagntcctg ggattagaaa tcccatatcc 360  
 attccagtgg gggactccga tattcaaac gantcatggt ttggaatgt tttggtgctg 420  
 caaatggctg caatctg 437

<210> 4646  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-D2  
 <400> 4646

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 aggtngttac agatgataaa catgcgagat aatccaacaa tgcagtgtctt acaagcttca 120  
 aagtttctat ttttagctct tattttgatc cagttgctgt ctactcaact ctttgctcaa 180  
 agatctaaaa gtccatggca aacactcact ggagatgctc cccttgatcat tgctcgtggg 240  
 gttttctggg ttgttgccag attcaagtct cgatgcttac agttttgtat cgcagactag 300  
 tgttcctggg gctgttcttt ggtgtgatgt gcaactaacg aaagatgcaa ttggactttg 360  
 cttccctgat gtgaagatga tgaatgcttc aatatcaana gttacccaaa cggaaactct 420  
 acttgctaan g 431

<210> 4647  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-D4  
 <400> 4647

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 nnaaggaach agnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnna ttctgttggt ttgcaatgg tttggagggt cgtaaatggc 180  
 gtcatagact cgggagatta agggagaaca agtactctgc atcttctgga tttctcacta 240  
 tttctccttc tctagaggaa taggcgagaa attgagatta ataaaaaggg gtgttttttg 300  
 gttctccttc gttgtataa agcctgccgc ttcttaaggt tctttgaaa ttctcaagtg 360  
 atggaggaaa atctggttta ctgcgcatga gctattaacg aaattcatca tgaatgtctc 420  
 actgtcacac ttgtgggaan tatgcgttga atgattgtca agaaaccgat tctngttccc 480  
 nacttcgttt gaacc 495

<210> 4648  
 <211> 335  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-E1

<400> 4648

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gtggatttgt gtgtgtgtga tgtgtcgggtg agtgtgttat agaagtcact atagccatct 180  
tcaaagggga gatagagcta ggagtagtat ttggtggtgt cacgtcgttt gttttttcta 240  
tataattttt gtcactatgt ctttctatta tgggacatgg cataatatat catatgaata 300  
atttatcact aaaaaaaaaa anaaaaaaaa aaggg 335

<210> 4649

<211> 424

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-029-Q1-E1-E10

<400> 4649

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cgttgtgact cattccgagt taaaaaaaaac gggttttcga caccatggat atgagttcaa 120  
tggctgggtc aatcggagtt tcggtagccg tactccgatt cctcctctgt ttcggttgcca 180  
cgatccctgt ttcattcgct tgtcgaatcg tcccagatag actcggtaaa cacttgatg 240  
ccgctgcttc aggtgntttc ctctcttacc tcncttttg cttcaccncc anncttact 300  
tccgtgttcc gatgacgac ggatatnntt caatgggcga tttanagacc caaagtgtgg 360  
gaaacancaa cgtttctnnc ctcggtttcg ccctaachta attggntggt cacgtggttt 420  
aata 424

<210> 4650

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-029-Q1-E1-E2

<400> 4650

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canancttca aggacgtttc atctgcggtc aagtggccgt ctatttcctt ctcttagctt 120  
aactcatctc aagggaagc tatctctctc catcaactcg ttttctcca agattcagtc 180  
tcatgctctc cgaggagtgt gtataggcga gtcagataag aaaaatcccc tgccgcgagg 240  
ggccggagaa ggagtcaagg aagatgcgag gagtaagctg cttcatgtag ttttggctctc 300  
tcctcagatt cctgggaata caggttgcat tgcaagaaca tgtgctgctt cagctgttgg 360  
tctgcattta gtcgggccat taggttttca agtggatgac gccagagtta ancgantctg 420  
tttgggataa ttggccgtta tcctacctaa nttgtcaa 458

<210> 4651  
<211> 517  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-E3  
<400> 4651

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ggccgcctt ttttttntt ttggnagtt agaattgcta tgaattccaa accagagaan 120  
attcaaataa aacagagact aaaaaggctg ttcaaacagt aataattctt gcacatgaac 180  
actaaaccag aacgataaca ggaaacaaag atacagtcag tactcagtag tttgagggca 240  
cctacggaaa gcaagtaata ctacagaggg tagacgttcc agtgcttaat gatgaaacat 300  
catcagtaca agcaaactgt tttttcatca tacaccgtat cactttcaca agtggctgca 360  
gtcattccgc agcataagga gattgacttc gagaagcaac atcaactttg cgcaaganga 420  
ncanggtac aaggagattg gggaaactccc aatngtacgc ctttcaggaa aatcncctta 480  
naaggnaag gcttttgcaa ggcaagggnt tcttggg 517

<210> 4652  
<211> 502  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-E4  
<400> 4652

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 gcggntncna gccc aaaanc acggttgagc attgtgaaga gaaaggttac tccgtgataa 120  
 acgtgagctg cgaggatcga ccaaagctca tgtttgacat tgtatgcacg cttacggata 180  
 tgcaatacat tgtgtttcac gccacgattt catcaagcgg ctctcatgct tctcaggagt 240  
 atttcatcag acaaagacgg ttgactctt gacacagaag gagagaaaga gagagttgtc 300  
 aaatgtctgg aagctgcaat ccatagacga gtcagcgagg gttggagttt ggagctctgc 360  
 gcaaaggaca gagttggatt actgtcggaa gtgacaagga ttctgagaga gcacgggcta 420  
 tcaattgtcc nanagctggg gtgacaacaa ttaggagaac aagccgttaa cgttttcaag 480  
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<210> 4653  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-E9

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 catctttcat caatccaatc tctcaaataa gcgagagaga acaaagatt atcgaatcct 180  
 tggagacgaa aacatactcc aatttgtaat tttctcgtct ttttttttac ctgattttgt 240  
 tatacgtttg atcgaaatca tttgctctga tggatctctg ttttgtaac ccttttgaga 300  
 tttggtagat atggttttga ggattgatat atttgccgct gattgtcgtt gaaaaattgt 360  
 gaaatttgat ttggtggttt aggggttaaaa tgaaattata tgatgaggaa tataagaatc 420  
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 t 481

<210> 4654  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations

<223> Clone ID: LIB22-029-Q1-E1-F2

<400> 4654

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tntctnctnct nctnaccgga aangcgtctc gtaacactga tctctaataga tcttcgtctc 120  
caatggcgat atcagtacaa cagtcgtcgc ttttactcct ctccactctc ctcatcgcca 180  
tcaccttctt cctcttcacc tccgataacg ccagattccc tttcccttct ctctccacca 240  
ccgattacta cacaccaatc ccaaaatctc caattcctca ccgaatcgtc gacgtttctt 300  
cagatcaaac tccacagaag atgaagctaa acacttcctc cgagggtggga gagctgaaat 360  
gggatctatg taaagggtgca gaatctgttg attacatacc ttgtcttgat aattacgccn 420  
gccatcaagg aagtcaatca agggagacat tatgggggaa tcgagaaagt caattggccc 480  
tgaaccaaag tcctaaaang 500

<210> 4655

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-029-Q1-E1-F6

<400> 4655

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cgataacagg aaacaaagat acagtcagta ctcagtantt tgagggcacc tacggaaagc 180  
aagtaatact acagagggtg gacgttccag tgcttaataga tgaaacatca tcagtanaag 240  
caaacgtgtt tttcatcata caccgtatca ctttcacaag tggctgcaat cattcccgca 300  
gcataaggag atttgacttc gagaagcaan atcaactttg cncanaggac aaggctacca 360  
agaaantggg aactccncat tgctaancct ttaagggaaa tcccttaaaa nggaaggcct 420  
tttcaaacia ggcttctt 437

<210> 4656

<211> 424

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-F7

<400> 4656

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gcgtttagag ggaaggagat gatgaagaan ctggtaaaga aagttggagc ggagaatatc 120  
acgccggagc tcaaggataa gctcaaggct tgtgttcctg ataccaaagt cgatcatgggc 180  
agagccaaac gcggtctcta cgccggccgc cacatccagt acggaaaccg tgtcagtga 240  
gacggtggna acaagtcaag aagatgttgg aaaccgaatg tccancacaa gcgattgttc 300  
agctacatat tcgacagtca cagtatcngt cacaatcacn acacangcnc ttcgctgcat 360  
cnacaaagca aganggatta aacgagtact tgctgaaaac ancaatcca tnagattggc 420  
caca 424

<210> 4657  
<211> 497  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-C4

<400> 4657

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natggttcga tccttcccag taaaacgcgg cgtgttcgaa ttctgatcgc ttttacgoga 120  
gaaaggggga ccaccctcta agcctaagta ttcctcaatg accgatagcg tacaagtacc 180  
gtgagggaaa ggtgaaaaga accctatgac gggagtgcaa tagagaacct gagatccgat 240  
gcgaacaatc agtcgaagga gtagtcaagc gcactcactc taacggcgta ccttttgc 300  
gatgggtcag cgaggaaatg ggaagagcgg ctttaagccat tangtgtagg cgctttccaa 360  
aggtgggaat cttctagttc ttcctatttg acccgaaacc gatcgatcta gccatgaaca 420  
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<210> 4658  
<211> 418

<212> DNA  
 <213> Arabidopsis thaliana  
  
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 gttgttgtaa ctgggtttgt gatggaagct anaattgaan gtgaagtaga aggtcacagt 180  
 ttagaatacg ggttttagtg taaaaggagt gtagagtggg atttgaatga ttgggaatgg 240  
 aatggtgatc cctcttgcta cacaactgaa tcacgggtca tccaacaact cntctacgtg 300  
 ctctgatgaa aggaaatggt taaatcatgg anaagaaagg ggggttnana tggggaaaaa 360  
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<210> 4659  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4659

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 gcagcatgac caggcattat catcaccatc agggctgaag gagagggtgg cttgcgccat 180  
 ggggcacctg caagaggtga tgggaganag ggagttgctg atccaactgt gggtgccctg 240  
 tgagacaagg ancggccgan tgctgancac ngaggagcaa ccttactcta tcaacacctt 300  
 ctcccaaaag ccaaaacctg gcctctaacy atgacncctt cactggctac agcttccaac 360  
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 ctgantggac ccaanacttc cgnttttttag ggaagg 456

<210> 4660  
 <211> 464  
 <212> DNA  
 <213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-A8

<400> 4660

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tcggtggtgc tcggctttga aattgaggat gagatccttt ccacttcctt ctacctgctg 180  
acaatgggca actgcggtac tanagacgag gctgccgtct tcactcctca agctcaagcc 240  
caacagctcc agaanaagca ctgcgatcc gtctcanatc tgagcgatcc atccactcct 300  
cgcttccgag acgactctcg cactcctatt tcgtatgcc aagtcatccc ctttactttg 360  
tttgagcttg agaccatcac cantagcttc cgcncagatt atntactcng gagaaagtgg 420  
tttcggtacc gtcnagagg gttacaattg atgaanaatc tccg 464

<210> 4661  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-B1

<400> 4661

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ggcctcaatc agctaagatt tttgtgcatt gtatgatgag tatagcaa at gaacaacaat 180  
ttgccatgga tcaacttgct gaaaccaatg atgattcnga aaagaaacca agaattacat 240  
acacnaggaa gtttctata tccttgagcg agaaagacgt ttgcaagaag ctgccaaatc 300  
tgcctggtga atttgatgaa gcaactgttg ctgacttcna agatccttca cccgancgaa 360  
caagaatttc aagggaattt ttcgtcncat ggnttcaggc ggaatgacca aaagttcaac 420  
gcctccaaca angggggaa 439

<210> 4662  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-B10

<400> 4662

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catataatcc gccgtccgct aatattcctc gattagaatc tccggcgatc agaaatctcg 120  
cggatgaattt tgatggaaga aaagctgcc aatcgctca agaatctcga tttgaatacg 180  
aatcgtggtc gtggaccaga gaataagatt cttgtttcag cttatgtatc ttcgtcacga 240  
atgtctccac tgaaatcaaa acctccatct cttgtgagct catgtcttgg tgttattggg 300  
aagcatttgg aggatatgat tcgttggtta actgaaatcn ctgttatatt tcctgcagac 360  
atcaaagatg tcgattgcag caattcctaa aaagaaaaaa actgctggga tgaatgatgt 420  
taataacctg gtttggg 437

<210> 4663

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-029-Q1-E1-B11

<400> 4663

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acttcttcga tctcttcttt ttctctacac gattcgattg attcaagtat caatcaatcg 120  
aatccgagat aagtcatgag tttcttcaaa tgggtttctt ttgttttgat ccttcacttg 180  
cttaatccga ctctgatttc atgttcctct aatgggttat ctcaaatacc ttcaaagttt 240  
cttacttttg ctaaaaggaa tgattttttc gattggatgg ttggaatcag aaggagaatc 300  
catgagaatc cagagttagg ttatgaggaa gtagagacat ctaagcttgt tagagcagag 360  
ttggagaaga tgggtgtttc ctaaaagtac ccagttgctg ttactggtgt tgttgggtaa 420  
gttggaaactg gtcatgctcc ttttgttgcc ttaagggtcg atatggatgc acttgctaag 480  
cangaaaagg gggaat 496

<210> 4664

<211> 478

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-B2  
  
 <400> 4664  
  
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 nnnnnnnnnn nnnnnnnnnn nngggcgggc gctctagagg atccaagctt acgtacgcgt 240  
 gcatgcgacg tcatagctct tctatagtgt cacctaaatt caattcactg gccgtcgttt 300  
 tacaacgtcg tgactgggaa aaccctggcg ttaccaact taatcgctt gcagcaacat 360  
 ccccttttcc gccaaagctgg cgtaataacg aaanaaggcc cgcaaccgat ttgcccntcc 420  
 caaanagttt cgcgaacctg aaatggcaaa ttggnacncc ccccggtaac cggggcaa 478

<210> 4665  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-B4  
  
 <400> 4665  
  
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 aggtaaccta agtttccncg gatattgatt aattnancna nanggnnatt gangtcggac 120  
 cagttgatcc atctgtccta tacgagcaag acctccatgt ttcttctgct gtttggaag 180  
 gacaggaacg aggtctactt cgttgtcaag aacacacttc attgctacat caatggaaac 240  
 tctactgatga acaaattaac ctctgtggaca aagctgggtt cggttacttt cgcaaaatcg 300  
 gtccaatgag tttaaacaat tctactgatct ctgcacttgt tgagcgatgg agaagagaaa 360  
 ccaatacttt tcatcttcct ttaggagaaa tgactataac cttagacgaa gttgcttant 420  
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 ggana 485

<210> 4666  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-B5

<400> 4666

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tcttcaggct acgctctcaa cggcaaaatc atgctctcct ccgtgatcgt tctattcgtc 180
gccgttatta tgatcctctg ctccacacgc tacgcccgtt gggtattccg tcgtcacaac 240
cgtcgcattc gccgccgtat tcgttctcac ctccgcactc tctccgcctc accccgagac 300
caagctctcg accaggctgt tctcgacaag attccgatct tcgtttaatc ctccaaagaa 360
tcaacaacaa caagaagana aaggaggatt gtcctcgtctg cttgtccgga nttcaaggaa 420
a 421
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<210> 4667  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-B8

<400> 4667

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ggaaaatcta tagttcctaa tgttatcaga gtcgtcgaac tcgcgaggca gcgtgggtatt 180
ctcgtaattht gggttgttcg agaacatgat cgtcaaggaa gagatggtga attattcagg 240
cgccataact acagttctga gaaagtcggg ccagttatta aaggcacctg angancagaa 300
ttggttgatg gattgatgat caacgaagaa gatgactata aagattgtga aaactcgttc 360
agttgccttht ctttaagtac caatccttca atcccttctt gcaaaacttc aaggggggta 420
ccaaanttta ntgaattgcc tgggtgttgca aaacncccg aactgtttccc gggaaaa 477
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<210> 4668  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-029-Q1-E1-C1  
  
 <400> 4668  
  
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 ccnccttca ataatttctg caaaccctaa ctttctcatt cggcgctcaa gtttctctcc 120  
 accccttcga gatttgggtgc gatgatgttg cgtgctgttt ttaggagagc ttccattaga 180  
 ggctcttctt ctgcttcggg attgggaaaa tcattgcaat cctctcgtgt tgcagtgtct 240  
 gctcaatttc attctgtttc agcaacagag acgttgggtgc ctctgtggaa ccatgctcat 300  
 agcttccatc accgttcttg tccaggggtgt ccagactgtt caaggactat tatcaacggt 360  
 taccaaggca cagccctgca aagatgggtc aaggcctttt catctgataa tggggatgtc 420  
 gtggaanctg ttgtgcacac atgggtgaac aatcactgat ggaacctanc gcctttcgaa 480  
 naaactgggg aa 492

<210> 4669  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4669  
  
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 tgtagagat tcttcttctc ctctgctttt ctattctctg ggagctcgat gatggatgat 180  
 aaagctcgca aagaagaaga acatcatgtg tctaccaac ataatcattc tctctgcaa 240  
 agggatggaa attctgctga gattgcacaa ggacaagagc tatcatcacc gggccgagac 300  
 ctatggaggc gangtctgtg ttagatttac catcaacaac acctgaagat actacaagag 360  
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 ttctccaaag gtccaacct a 441

<210> 4670  
<211> 523  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-C12

<400> 4670

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cgtcaattat catctattca ggggtaagct atgggatgtg cttcttctct tccagatagg 120  
aactctggaa ctttaagtgg tcttagcaat tcagagaatg ctgttccagc tgatgccaaa 180  
aatctacgtg tgaagttagt tctattagga gactctgggtg ttggtaaaag ttgtattgtc 240  
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ttgtcccaaa ctatagcatt gcaagactct accacagtga agtttgaaat atgggatata 360  
gcaaggacag gaagaaggta ttctgctcct tgcaaccaac taataccaac cgtnggaagc 420  
ctggaatttg ctggttaant tgtgntatgg ataataacaa agcccctgga aatccgtttc 480  
aaaggaaaaa gccacaagtt aattgggggtt taaagggaaa cct 523

<210> 4671  
<211> 504  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-029-Q1-E1-A4

<400> 4671

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caactttatg gaccagctct tgtgggagga gtgctgggaa gaagaggcaa cgcagcatga 180  
ccaggcatta tcatcaccat cagggtctgaa ggagagggtg gcttgcgcca tggggcacct 240  
gcaagagggtg atgggagaga gggagttgct gatccagctg tgggtgcctg ttgagacaag 300  
gagcggccga gtgctgagca cggaggancca gccttactct atcaacacct tctcccagag 360  
ccagagcctg gccctctacc gagacgtcca gctggctaca acttcgcagc anaagttggt 420

cggnnaactg gtggggctgc tgggccttnt gtccnaagg aaatgcctga ttgncccaa 480  
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<210> 4672  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-E12

<400> 4672  
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gttttggtgt gacggaaagg aaaaatgggt ttgatttctg ggattctggt cgggattatc 180  
ttcggcggtan ctctaattggc tggctggagt cgtatgatga ctcaccgatc gtccaagcga 240  
gtcgccaagg cagttgatat gaaactacta ggctctctta gcagagacga tttgaagaaa 300  
atttgtggtg ataatttccc tcaatggata tcgtttccag catttgaaca ggtcaaatgg 360  
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<210> 4673  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-E2

<400> 4673  
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ggaaggcagt gttcaagatc taagtcagaa gattagtcaa tcggatgaag catcttcaaa 180  
ccatcaggaa acgggtcttg tgaagctcta cagtgttggg gaaagttgca acgagaacat 240  
tccggaatgt agttcatttt tccttccaaa agctgccatt ggatttatca caaaccttgc 300  
atcaagcctt tttggttata agggttccac ttcggttata agttcacatt cacgttgcaa 360

tgattctgaa gatcaaagtg actctgaagt ccttgttcaa gaaacagcaa gaatcatatg 420  
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<210> 4674  
 <211> 432  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4674

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 gttggggaga tgtctcagcc ggaggcgacg gcgagtcttc tctctctcgc ttccgccact 180  
 cagcaaccgt acgtctccga gtcctctctt ttactcttg atcgtctcca caaggaaccg 240  
 gagctgcttc gagtggatgc ggagcggatt cagaggcaaa tgcaagaggt ggctgttgga 300  
 aattaccgcg cgtttatcac cgctgctgat gctttgcttg cgatccgtca ggaagtttct 360  
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 cactgaatta tc 432

<210> 4675  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4675

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 tggatatgaa gctactagga ttgtgctctc tagaatccaa agcttagacc ctgaaaacgc 180  
 atcaaagatc atgggtcttc tccttcttca agatcacggg gaaaaagaga tgataaggct 240  
 agcttttggt ccagagactc ttgttctctc tggttatagt aaagccaaga aagagttagg 300  
 tctcatgaac tgttcaaggc ctccgtggag tcatcaagat gagttgatta gccctaagaa 360



caaccgtggc tcttcactca atccaacttc cttgcccttt tacctaattgg aggaagatnt 420  
ccaaggaatt aaccaacgaa ttcaactcat ggatgatatg aactccagaa gtaatga 477

<210> 4676  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-F10

<400> 4676

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atacaagttt cctattgatg aagatgattt tatgccaatg gatttcgaag tagtgtggtc 180  
tgaaatggag gagtgtcaga gacttgggct cgcaaaatgc ataggagtaa gcaatttttc 240  
atgtaagaag cttcaacaca tactctctat cgcgacaatc ccgcctagcg tcaatcaagt 300  
tgagatgagt ccaatatggc aacaaagaaa gctaagggag ctttgtagat cgaacgacat 360  
tgttgtcaca gcgtactcgg tgttgggatc tanaagagct ttttggggaa ctcccaaaat 420  
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<210> 4677  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-F12

<400> 4677

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tcggacggag gagcaccgtc gagatactg aagttgacga nggnacaagc tccggtcgat 180  
gagattcatc ccggtgaant caatcancce attgangttt ctcatctagc tgttcacaaa 240  
tgcantgagt gtggccaacc tttgcctgag aattttgaag ctctgctga tgagccctgg 300  
actaccggaa tattcggctg cactgaggac atgaatagtt tttggntggg acttttctgc 360

ccaagtgttc tatttggacg tgtctatgaa actctgantg atgaggaaac ctctgtggaag 420  
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<210> 4678  
 <211> 443  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-027-Q1-E1-F7

<400> 4678

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 ggtttgatag tggcgatgtt gaccgcacaa gaccaaagcg gtggccatag ccgcaacagc 180  
 aaccgccctt tgtttgaggc caaagaaatc gtcccttttt atctcaaaca ctcacccaaa 240  
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 ngaggacca agttcaacgg taaatacctt catgacttan gntgaagggt tcttgggcga 360  
 cacaaaatta actcantctt tgacaaacgt tgtcatacct tgcttcgaca tcaagananc 420  
 tccaaccagt tacccttcnc ctc 443

<210> 4679  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-027-Q1-E1-F9

<400> 4679

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 gctgccaaat tggtgaaacc agtttccttg gagcttgggg gtaaaagccc tatcattgtc 180  
 tttgatgatg tcgatattga taaagctgtg gaatggacta tgtttggttg tttctggacg 240  
 aatgggcaga tttgtagtgc cacatctcga cttcttgtgc atgaaaggat tgctgacgag 300  
 tttttggaca agctggtaaa gtggaccaag aacattaaga tttcagatcc ttttgaagaa 360

ggctgtangc ttggctcctgt tgtcagtaaa ggacagtacg agagagttct aaagtttgtc 420  
tcaaacgcta ngaatgaagg tgcaactgtt cctttgtgg 459

<210> 4680  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-G1

<400> 4680  
  
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caaaccacg cctgcaacgg tggacatggc taatccagag gagcttaaga aagttttcga 180  
ccagtttgac tccaacggcg acggcaagat ctcatctc gaactcggcg gtgtgtttaa 240  
ggctatgggg acttcctaca cagagacgga actcaaccgc gtgctcgaag aagtcgatac 300  
agatcgcgac ggttacatca acctcgacga attctcaact ctctgtcgct cgtcttcctc 360  
cgccgcagag atccgtgacg ctttcgatct ctacgatcag gacaaaaacg gactgatctc 420  
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acgtacc 487

<210> 4681  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
  
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<223> Clone ID: LIB22-027-Q1-E1-G11

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tcggcttacg cgcttcttt ccgttcgatt aaatgcgtct ctgtttctcc ggaagcttca 240  
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ttaccgctgt atantccccg attagcttaa tcttggttcc ttggcttaac cgttggtttg 360  
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<210> 4682  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 aagttaatta agatttggtt taaggcgctt tgctttatta gagaggaagg aacgaaccat 180  
 catagaaatc tctccttcgt tcaagttttt ctctactgtg ttggttgagc aatcgagtga 240  
 tggttattgc ggtggcgacg acgagctcca ttgtttccg aatcaagctt tcagggatct 300  
 taacttcgtt caacgccgta gatgatgcgt ccagtagttg cggaagaagc aacttgaccg 360  
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 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-027-Q1-E1-G2  
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 ctgccaaca cttaaaaaat caactctaga gatgggactt gagacaaaac caaacctctc 180  
 ctttgactc atcatcctac tactcggctt ctttgacgtc tcttacgctt ccgttcctcg 240  
 gaaactaat ccacatcaac gcatcggttt cttgaagccc ttcccgaag tcttcacctt 300

caagccctta ccaaaagtct tccccttcaa gccctcaccg aaagccttcc tccccaagcc 360  
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cgattctcca actgacgtag cccaactcct cccctcctct ccaggttct ca 472

<210> 4684  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 4684

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gagaaacgat tccagactga agggcctgac cataccattt tcgtaggtga cttggcacct 240  
gaggtgactg actatatgct ctccgacaca ttcaagaatg tgtatgggtc tgtcaaaggg 300  
gctaaagttg tgcttgacag gaccactgga aggtccaagg ggtatgggtt tgtaggttt 360  
gcggatgaaa atgagcanat gcgtgccatg actgaaatga atggtaata ctgctcgaca 420  
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<210> 4685  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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caaggttcgt cttcagcttc acggtgaagc accttcacc accaccgtca ctctcctccg 180  
tccagctctc gctttcccca attcttctcc tgcagctttc ctggaaacga cttcttcagt 240  
ccccaaagta ggaccgatct cactcggaat caacatagtc aaatcggaag gcgccgccgc 300

gttattctca ggagctccg ctacacttct cgcgcagacg ttatattcca acaccaagga 360  
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<210> 4686  
 <211> 397  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 <400> 4686

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 aaagtctgtg gcgatgaggt caaagacgat gacaatggtc agacttttgt ggcgtgtcac 180  
 gtgtgcgttt acccggtttg caaaccttgc tatgaatatg agcgtagcaa cggtaacaaa 240  
 tgttgccctc aatgcaacac tctttacaaa cgccacaaag gctctccaaa aatcgccgga 300  
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 gatgggtcct ccattcacca gaattttgcc taaggat 397

<210> 4687  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gaanctaatc aaaggacttg aaaccgcaag aggtaatgga acaagtatga tctctcttat 180  
 aatgcctcct agagatcaag tacctcgtgt cactaagatg cttgctgatg aatacggaac 240  
 cgctcaaac atcaagagtc gagtgaatcg tcaatctgtt ttatctgcc aattctctgc 300  
 tcaacaaaga ttgaagcttt acaacaagag ttctctcnaa tgggtcctgt tctctatact 360

ggaaccantg ttactgatga tggtaaaaga gaagaaagtg acgattgatt tcgagccttt 420  
aaaccgatta a 431

<210> 4688  
<211> 412  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4688

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ctaccgacag agacagaaac tctggagaaa gtgactgaga ctaatccacc ggaaactgca 180  
gataccacca ccaagccaga agaagaaacc gcggcagagc atcatccacc gacagtgcgc 240  
gaaacagaaa ctgcatcgac ggagaaacaa gaggttaaag acgaagcatc gcagaaagaa 300  
gtagctgaag agaaaaagag tatgattcca caagaatctt ggttcattca aagaagaaag 360  
cagcaaactt tctgatctat ctaattccga agaaagaaat cactcgatga ac 412

<210> 4689  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-A12

<400> 4689

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agccgcaaaa tttaatggca gacgtcaagg ttcaatccga atccgaatcc tcggattctc 180  
atcccttggg cgactatcaa tcaattccac cttatcctcc gccgcatcca ccggttgaag 240  
tagaggagaa tcaacaaaaa acatctccga ctccgccgcc gccacactgg atgcgttatc 300  
caccggtgtt aatgcctcag atgatgtacg cgccgccgcc accgatgccg ttctcacctt 360  
atcatcaata tccgaatcac caccactttc accatcaate tcgtggtaat aagcatcaaa 420

acgctttttaa tggtgagaat aaaactaatt gggttggtga tttgcaaaac tgg 473

<210> 4690  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 4690

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cttcagtttt tgtctaatta gggttttaat ttaaattgga gggaaatfff agatgcagtg 180  
acgtagtttt tgggtaaatt ttcgtcggat tctgaattgt ctccggcgac atggcttcta 240  
atctcccat gagccctcaa ttggagcaga tccatggcga aatccgtgac catttccgag 300  
ccctcgcgaa tggtttccag aggttggata agattaagga ttcaactaga caaagcaaac 360  
aacttgaaga acttactgac aagatgagag agtgtaaaag attggtcaaa gagttcgacc 420  
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aa 482

<210> 4691  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-A8  
  
<400> 4691

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catgggagtt ttcagaggct aaccaatcta agaatcggct attctggaac tgatttaagg 240  
gagagactta gagtgaacga cccaaatggc caacagattt gaatctgcta gtgtggcaga 300  
aagactgtcc agaaattagt aaaccggttt cattgtagtt taaatcctaa tactttcttg 360



tgcatttagt tccagtttac tgtatcttca ttctgggcta cagtaatcnt gcataacggt 420  
gaaatcgatt t 431

<210> 4692  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4692

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agaaagactt caactcaatt tcttgctga aagaattgaa aatcttgcag aagacaccag 180  
taagagtgtc tcaccgacga agtccactgg accgtgaaaa gattatacat tggatgaaa 240  
ttgaaaagat aaaaggacac tctcactact ttctattgca tctgtgcacc cagagtttgt 300  
tcatggagat cttggtcgta ccactcccag catgggatca attttagggg gcanagcgga 360  
gataatacaa ctagatgtga ctgatgtgaa antgggcgaa ccaatgaatn cca 413

<210> 4693  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-B1

<400> 4693

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gggtctggac ctcgctccgtc gcagccgtct gggcacggtg gaggatacgg agctactcca 180  
ccgcatgggg tttctgacta tggaagttac ggtggtgctc cacctcgtcc agcgtcttct 240  
ggtcacggtg gcggatacgg aggttatcct ccgcaagcct cttatggaag tccttttgct 300  
tctctgattc cgtcaggttt tgctccgggg acagatccga atatagtggc ttgctttcag 360  
gctgcagatn aagatggtag tggctttatt gatgataagg agcttcaagg agctctctct 420

tentatcaac agagattcag tatganaact gttcancctc ctaagtacca a 471

<210> 4694  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-027-Q1-E1-B8  
  
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acaagaacga tgacaacaca taaacataga agaacagaga aaaatctctg ttttaagcaa 180  
tactacaaat ggatcctctg ttttatacctc actctctatt tttttgcttc cttctttgtc 240  
gaccatgatc aagatcatag atcttctact tccatatcaa agcatcttct tactaaccat 300  
aaacctaagc ttttcgcttc tcgtgccatg tttgaatcta aaatccatga tcacaaactt 360  
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cnatgactta c 431

<210> 4695  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 4695

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aaccactcct acctccgtgg antgttctcg cgaattccgt caccgangaa cacttcgttc 180  
actcatcgaa tgcattgattc catactgttg cacttaccaa caacanccat accaanacga 240  
caccctttca gtentntcca cttcatntc gtentcatcc tcagaccact cttcncctc 300  
ccanagtagc antaccgtat gtggaacttt cttcggacac cgtentggcc gagtcagctt 360  
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<210> 4696  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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ccccaacat ggaagggact tattgatgga agcacaggaa ttctctatta ctggaatcct  300
gaaaccaatg tcaactcagta tgaaagacct tctgcgcctc ctccccactc tgccacaaca  360
ccgaagctag ctgagattcc tgtaccctct tcaggacaag gtcaccaagc tcagcatgaa  420
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 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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acgcagatcc tgactttgga tcatgtcaag ctaaggagat gcttgatcat ctagagagtg  360
ttctcgccaa tgagcctgtg gttgtcaaga gaggtcaaca catcggtgaa gtcaaaccac  420
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
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<210> 4701  
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<213> Arabidopsis thaliana  
  
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<210> 4702  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<210> 4703  
<211> 404  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4703

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ttggccagaa ttttgcatg cttgaggcaa agatggcaat ggcattgata ctccagagat 240  
tctcctttga gctttctcct tcctatgttc acgcacctta cacagtcttc accattcacc 300  
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404

<210> 4704

<211> 409

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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<400> 4704

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gttcagtctg gtgacagtga tcggttaaga gtgtggtcag atatccattg tgctgttagg 180

ttaancggaa ctgttgcgaa aacgttggtg actctctaca ttaatggtaa cttcanagga 240

gaggatgtga atctacttgt atgtttggag aacttcacan tгнаааааа tncnanaant 300

agatggagcc cagaactcag tcntgaagat naatccacac attcacaaca gcatgttcnc 360

aacgtgagta atttgaacac tctttgagga aacaatctcg gtacncaag 409

<210> 4705

<211> 428

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-026-Q1-E1-F6

<400> 4705

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gaaacgagag attcgagtga tgttttatga actactanta gtgtttnttt ccgtgaagta 120

aagagaaacg gtaacttttt ctatttgttt tcaagaaaag ccaaagaaaa aaagaatttt 180

taatatactc tgttttttgc aatgattttg ttttgtgaaa tttttctcgg agaagaaagt 240

aatttagaag acggagagtg gcannacgaa atataaaaag aaaagttttc aatttctttt 300

aagaaaaana aaagcttttt cccttcntaa aacccttcct cngtttcaga agcaattgac 360

ataagaaaga aaatngatta naagctaatt gngttcncat cncctcntcc tctacagggt 420

ttttaaag 428

<210> 4706  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4706  
  
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 ggagctcaag aacttgaggc ctcaacttta ttcagctgct gattactgtg aaaagtctta 180  
 tcttcatagc gagcaaaagc aaatggtatt ggacaatttg aaagactaca ctgtgaaggc 240  
 tctagttaat gctgttgatc accttggaac tgtagcttcc aagcttactg atctttttga 300  
 tcacccaaat tcagacatat caactatgga aatgagagct tcttgtgtta gccagcaact 360  
 gcttacatgc cggacatata tcgacaaaga aggtcttaga cagcaacagc tattaacagt 420  
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<210> 4707  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 4707  
  
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 catcgccgga acgctttggg ttaatggggc acaagacatt ttcttggnct aaccagttt 180  
 tttgatgatg ancatnatca aggctggaat catacacacc cagaacatcc atattcgagt 240  
 caagcaacat ctgggaccag tgagaacaga tcacatgttt atccancaga anacatgttg 300  
 aatgaaggaa tgccagtgtc ttctcattgg aactcttctc caggaccaa tgcttatact 360  
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 gatcc 425



<210> 4708  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-026-Q1-E1-G2

<400> 4708

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cgctgtttac aaagtctgtt ggctcgggtgg ttgtttcagc tcagatattt tagctgcaat 120
cgataaagcc atcgccgata acgtcaatgt cntgtcnatg tcactcggcg gtggaatgtc 180
ggattattat agagacggtg ttgcgatcgg agcattcgcc gccatggaaa gagggatttt 240
agtancttgc tcagctggta atgctgggtcc gagtagttct agtttatcaa acgtagctcc 300
atggatnaca actgttggtg ctggtaactt agatngtgat tttccggcgc ttgccantct 360
ccgtaacggg aagaatttca acgggagttt ccttgnttaa aggaaaanct ttaacggata 420
aattgtgccg tttaattacg ctgggaaagc tagtaatgct actaaat 467
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<210> 4709  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-026-Q1-E1-G4

<400> 4709

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gaagaggctg attttgccga gaaagatcct tctggccgtt acatcaggta tgatgatgtt 120
ctggggagag gagctttcaa gactgtatat aaggcgtttg acgaagtaga cgggattgaa 180
gttgcttgga acctagttag cattgaagat gtaatgcaga tgcttgggtca acttgaaagg 240
ctatattctg aagttcatct actaaaggnt ctaaaacatg aaaacatcat caaactcntt 300
tactcntggg ttgacgaaaa gaacaagact attaacatga tcactgagct tttcaactcc 360
ggtaatcnca aggtatatcg taagaancat aagaaagttg attccaaagg catcaanaac 420
tgggcaangn aaattctcaa aaggctgaac taattgcaat cc 462
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<210> 4710  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-026-Q1-E1-G5

<400> 4710

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tcttctctct caccaaacaa atctcgtaac tgtatctcaa attctcaaac tttccctgac 180
catgttctcg aaaacgtact tgagaacggt cttcagttcc tagattcaag atgtgaccgt 240
aacgctgctt ctctagtttg caaatcttgg tggcgtgttg aagctttgac tcgatctgag 300
gtttttattg gtaactgtta cgctctttct cggcggaagt tgactcagag attcaagcgt 360
gttaagtctc ttgtgctgaa agggaaacct aagtttgctg atttcaatct catgcctccc 420
tgaatggggg 430
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<210> 4711  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-026-Q1-E1-G7

<400> 4711

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ttcgtcgtct catggtggcg agtacaagaa tttccgacag attacgcgtg aacgactctt 120
gtatgagatg cttagatctg caaagacagg gagctcaaaa tccacctgga aggtactaat 180
catggacaaa cttactgtca agataatgtc gtacgcctgc aaaatggctg atatcacaca 240
agaaggagtt tcattgggtg aagacatatt tagacgaaga caaccacttc cttcaatgga 300
tgcaatatac ttcattccagc caactaaaga gaatgtcatc atgttcttgt cagacatgtc 360
tgggaaatca ccttgtacaa gaaggcattc gttttcctca gttcaacggn ttccaagg 418
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<210> 4712

<211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-026-Q1-E1-G8

<400> 4712

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aacctaacgt tgagttaagg cgcccaaagt cacgctcatc agataccata aaaggtgttg 120
attcataaan acagcaggac ggtggccatg gaantcgga tccgctaagg agtgtgtaac 180
aactcacctg ccgaatgaat tacccttgaa aattgatggc gctgaagcgt gctgccgata 240
ctcaaccatt agtgcannnt taatatgang cnctaagag taagagggcg tggggacaag 300
tgtaaaancc tttancgtga gcttgggtgg aactgtctct agtgcagatc ttgngggtan 360
taacaaanat tcaaatgaga acttngaagg ccgaantgna aancggttcc atgagaacag 420
caattgggtc atgggntact c 441
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<210> 4713  
 <211> 407  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-026-Q1-E1-G9

<400> 4713

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cctacaaaac ctccggttat tctctccggc ggcgaacgca gctctatccc tagatcatat 120
ccaagaaacc caattaactt acctccctgg attccctcga cccgatcaa aacacgcaga 180
gacgatctta gccgttccaa ggtctgtctc cggcaagagc atatcagcga aagagcgtaa 240
agcgggtcgg gttccttcga tcatattcga acaagaggat ggacaacacg gaggaacaa 300
gaggcttatt tcagttcaga cgaatcagat caggaagctt gtgaatcatt tgggttactc 360
ttttttcttc tctaagctct ttgatgttga agttcgaact gagaatg 407
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<210> 4714  
 <211> 404  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-026-Q1-E1-H11

<400> 4714

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tccattgata tggaggcatt gtctcttgga ggacaggaac accttggtga gactacttat 180  
ggcccggttt gtgttgccgt ttgtggagat ccagataaac cagctcttat cacttatect 240  
gatatagctc ttaattatat gttctgtttt caaggattat tgttttgtcc agaagctagt 300  
tctttgttac tccacaactt ttgcatatat cacatcagtc ctcttgcca tgagttggga 360  
gtccaatga tcagtgttga tgctcctttg ctctcaactg atga 404

<210> 4715

<211> 384

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-026-Q1-E1-H12

<400> 4715

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aagaaattta acagaatgaa agtaattact tccctaactc ctccanttt gcntaaattc 120  
atccacaaag acttccatga gatttatgca agaatgtccc tcttcgatng gnttctctct 180  
cctaacgtgc aaggagtga taagangnt ccaaggnata agcctccaat aatcctgggg 240  
gtaaactanc cttgaagtac gaaagactcc ttcaacaaca atacaatcct ctcaacgtcg 300  
gcaaaactcc gactgggatc cggttgatcc tgcaaatanc cgtaccggac tgctgacgga 360  
aatcatgatc ccttaagaag ngtc 384

<210> 4716

<211> 429

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-026-Q1-E1-F1

<400> 4716

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ctatttggtc aagtcattgt ccttttgctt ctcctttgtc tatccgacga ttttgtaaac 180  
tctagagcta cttattatgg cagccccgat tgcaaagcaa atcctcgggg acattgtggg 240  
tatggagaat ttggaaagag atatcaataa cgggtgaagt agtgggtgtt catggcgact 300  
atggaacaat ggaactggct gtggtgcttg ttaccaaggt gangtgcaa gatacaacac 360  
actgcagtga ngaangagta tacgtagtgg ctacggactc ccggagaaag gagatngcac 420  
ggacttcac 429

<210> 4717

<211> 428

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-C5

<400> 4717

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gcctccgaga gtaccaaadc ttattggagg ttcttttgtt gagtctcaat catcttcgtt 180  
tatcgatgtt ataaaccctg ctacacaaga ggttgatatc aaagttccat tgactactaa 240  
tgaagagttt aaagctgcgg tatccgctgc gaagcaagcg tttccgttgt ggagaaacac 300  
gccgattact acccggcagc gtgttatgct aaagtttcaa gagcttatac gcaagaatat 360  
ggataaactt gctatgaaca tcacaaccga gcaagggaaa gacttaaagg atcacatggg 420  
gatatcct 428

<210> 4718

<211> 397

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-025-Q1-E1-C8

<400> 4718

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agcttgattt gtctgtctct tcttcgtctt cttcgagcct cctccagcag ttcaataaga 180  
ctcatgaagg tgatgatgac gcacgcctgg ctcttgctca tcagctatac aaaggaggcg 240  
atttcaaaca agccctggag cacagcaaca tgggtttacca agagaaacc attacgcact 300  
gataatcttc ttctaattgg tgctatttat taccagcttc aagagtatga tatgtgcata 360  
nctcgaaatg aagaaactcc tccgtaatca acctcaa 397

<210> 4719

<211> 404

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-025-Q1-E1-D10

<400> 4719

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atcggttacg gatggggttg gcttatcgtc accggtcgag ccccgattct tcctctatgg 180  
gctatgtgtg ttctcatatt cgttgggaac aatggcgaga cctacttcaa tactggagca 240  
ttagtctctg gtgttcaaaa ctttcccaag agcagaggtc cagtgggtggg tattctcaag 300  
ggttttgctg ggctaggtgg tgcgatcatc tctcagatat atacaatgat tcactcatct 360  
aaccggcctt ctctcaatct caagggaact gttacgcctg cant 404

<210> 4720

<211> 459

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-025-Q1-E1-D4

<400> 4720

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tgatgagcaa gcggatgcta ttaaagatgt ccttgcaagc gaagaacatt gctgctaattg 120  
 tctatgttgg tatgcggtat tggatatccgt tcaactgagga ngctgttcaa cagataaaga 180  
 aggacaaaat tactagactt gttgtactgc cattgtatcc tcagtattct atctctacaa 240  
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 gtgccggtan ctattataaa ntccctggtag caaaggcgaa gctatgtcaa ttctatngct 360  
 gacctcattg anaangagcn tcaaaacttt cccctgatcc taaaggangn tatgatantc 420  
 ctcaattgcc catggtgttc cggtcacta cgttnaaaa 459

<210> 4721  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-D6  
 <400> 4721

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 gaaaccgcac ttgcgaccc tttggttctc atatcaattc aacaatgtta nggangtgta 180  
 agcaactata catgtacgtg tttctcttcg ggcaatcgaa gtgatatcct ggaatctaac 240  
 tgttccacat catgtaattg cagaccanca gacagagatc aatgggtatg tttgtgtcct 300  
 gcaaattgat ttccggttat agccattggg ggttcaaatt cgtcatgctt cacttcatgc 360  
 aactgctctg ctgggtgcta caaatcttc aaagaagcaa tatttatcga ggaaactcgt 420  
 tataanttat actactcctc ctgcggtgta ctaattcact aacaatt 467

<210> 4722  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-025-Q1-E1-D8  
 <400> 4722

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caggggttgca ggcagcacag ccagcagggg tgcaggcagc acagccagca ggggttgcagg 180  
cagcaggggaa gcggaagccg cctacgacga ccgaggatcc aaatgatcca cagcatataa 240  
tccacgattt cctcacaata gtgaacaaat tggagaagga agtggatctt ccaggcgcta 300  
taaccagggc tagaacctat gatgctgagg ttgatggact gataactgct gaccaaccac 360  
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tgatatcata t 431

<210> 4723  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-025-Q1-E1-D9  
<400> 4723

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gttggtggct gcgtaggcgg tgcttttttt ctctccttg tagctaccgg tctctacttt 180  
ttcacaagta aggccgggaa aactgtgaat ccttggcgta ctggtcttag tggacaactt 240  
cagaaagtat tcgttactga tctgagattg aagctgcatg tgaagatttt agtaatgtca 300  
ttggatcttg tcccattggg aagtgtttca aaggaacatt atcaagtgga gtggagattg 360  
ctgttgcttc ttttgctact actactgcc aagactggga aggacagtac aagaaattca 420  
cttcangaag aagattgaaa tggtatcgaa gatnaaccac a 461

<210> 4724  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-025-Q1-E1-E1  
<400> 4724

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ttgaaatgga tggagacgaa atgactcgag ttatctggaa attcatcaaa gacaagctta 120



ttttcccttt cctggagctg gatatacaat actttgatct tggactgcct aaccgcgatt 180  
tcaactgatga taaggatataa tgtggctatt aagtgtgcga cgattactcc ggatgaagct 240  
cgtgttaggg agttcggtt aaagaaaatg tggaggagtc ctaatggaac tataaggaac 300  
attttaaacg gcacagtttt cagggaaact atcatttgca gaaacatccc tcgtcttgtt 360  
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actga 425

<210> 4725  
<211> 442  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-025-Q1-E1-E10  
<400> 4725

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tacaaggatt ctactggtat attttgggat aatgacagct tagccgctct tctgtcgcta 180  
gagctgaaag ctgatctttt gattcttcta agtgatgttg agggccttta cactggccct 240  
ccaagtgatt ctacctcaa attaatacac acattcatta aagaaaaaca ccaggacgag 300  
attacttttg gcgaaaagtn caaattnaga ccaaggggta ngactgcnaa agttaaanct 360  
gctgttaang cancntangg tggcgttttc ctgttaacaa aaccatgtgg ataccctctg 420  
aaaatattta atnccttaag gg 442

<210> 4726  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-025-Q1-E1-E3  
<400> 4726

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gaaaagtgac acaaacaaga acttaacaag ggagaagaaa aagcttatat tcatatcaac 180  
 gggttgacgtt ggaaagctat taagatttgg ttttctacaa atttggttctt cctgaaacgt 240  
 cacgagacag agcttacaag aagagaaaac agaggaaatt tcgttgcat ttttttacat 300  
 attgattcga ttaatggatt caaataatca tctctacgac ccgaatcca acgggtcggg 360  
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<210> 4727  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-E5  
 <400> 4727

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 gggatcgaac aactctaaag cgtcactcgt cgctttcaac acttgtggct catttctttg 180  
 gcatcttagc tgttggttctg atgctaattt ggcttctcca ctaccgtgaa ggcacgagt 240  
 atggctccga caacccctt aagggtttta atgtgcaccc atttctcatg tactgtggat 300  
 ttctcttcct cgtgggccaa gcaatgatga cttacaaaac ggcgtacgcg tcgcaccaag 360  
 ttcagaaaat gggtcacggt gggcttcact taatangctt agttctaagt aatgtcngaa 420  
 tctgcgccg 429

<210> 4728  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-025-Q1-E1-E8  
 <400> 4728

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 ctcttagaga aagagaaact ttocatcaac tacgccaaact gcagaagctg gcaccttggt 180

gttgagacct ctaacatcat agacttcgac acggtgccccg caaattgcaa agactatgtt 240  
gaagactact tgatcacttc caaacagtac caatacgact ccaaaaccgt gtgcaaagag 300  
gcttatttct atgccaaagg acttgcccta aagaacgaca cgtcaatgt ttgggatctt 360  
tgacctagat gataccctcc tctctaatat ccctactacg caaaatatgg atacggaaca 420  
agagaagacc 430

<210> 4729  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana  
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<223> Clone ID: LIB22-025-Q1-E1-E9  
<400> 4729

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agaagtactc tatgtcttct tctcttcac atcatttgga aatccactgg ttctccatta 120  
ttaactcctg tgtcactgtc cttcttttga ctggattcct tgcaactatc ttgatgcgag 180  
tcctcaagaa cgatttcatg aagtatgctc aagatgagga agctgctgat gatcaagagg 240  
aaactggatg gaagtacatt catggcgatg tgtttcgggt ccctactcac aattctttat 300  
ttgctgcac gctcggtagt ggcactcaat tgttcacgct caccatattt attttcatgc 360  
ttgctcctgt tggagtgttc taaccataca aaccgaagga gcactcct 408

<210> 4730  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-025-Q1-E1-F1  
<400> 4730

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ccactttctt tgcatctcct caaacggagt caggaaactc tccactggct aagccaaatt 180  
ccgtacctgc aattaaagaa agagcacctg gaaaacttca gtatgctgca tctgctatga 240  
taaggggttc ctacgatggt tctgggtgtg ctggaaaggc ttctaataca gtgacatctg 300

aacagatgaa caacttgata tctaatactaa acttgctaga acaagttggt gacatgagtc 360  
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<210> 4731  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-C4  
 <400> 4731

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 aacccganth anaaaatggt ccggggtaaa agggaanaaa tggaaccaag cctatccggg 120  
 tatccgattc tttggggaac caactttact cnttgcngtc cngagttatg ggcaaacacg 180  
 aaccgttggt gangatnatt ggcggatgat caaggggaac agaaccacgc catcttacgt 240  
 tgctttcacc gactccgaga ggttgatcgg tgacgcagct aagaatcang tcgccatgaa 300  
 ccccgtaaac accgttttcg acgctaanag gttgatcggc cntcgtttct ctgacagctc 360  
 tgttcaaagt gacatgaaat tgtggccatt caagattcaa gccggacctg ccgataagcc 420  
 aatgatctac gtcgaataca aggggtgaaga ggaaagagtt cgcagctgaa ngagatttcc 480  
 tccaanggtt cctaattaan atgcnttgaa attgctgaag gcttaccttg gtgtc 535

<210> 4732  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-A11  
 <400> 4732

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 accggagttt aacaatgcta ttccctctag cctaacaaga gagagccctt atctgaccca 120  
 tccaatcttc aacatgtacc acacggagca tgagttgctt aggtacatcc acaagttaca 180  
 aaataaagat ctatcattgt gccacagcat gattccactt ggatcttgta cgatgaaatt 240

gaatgccacc actgaaatga tgccagtcac atggccaagt ttcaccaaca tgcacccttt 300  
 tgctcctgtt gaacaagccc aaggttatca ggaaatgttt acgaatttgg gtgagctctt 360  
 atgtacgata actgggattc gactctttct cattgcaacc taatgccggt gctgctggcg 420  
 aatacgcccg gctcaatggg t 441

<210> 4733  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-A12  
 <400> 4733

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 aagggtggtg agatgggaga tgtatgggat gatggtgttt acgaaaatgt tagaaaggta 120  
 tatgtagggc aagcacaata cggatatagcc ttcgtcaagt ttgagtatgt caatggttct 180  
 caantgggtg ttggagatga acatggnaag aagacagagc tangagttnn anagtttgag 240  
 attgatgcgg ntnactacat cntatacntg gaaggttacc gtnagaaagt taacgatatg 300  
 acgtcagaaa tgatcacgtt tctttctant aagactttta aaggcaaaan ctctcatcct 360  
 atcganaaaa gacctggggt ttantttgtg ccacatggtg gnaaaatcg 409

<210> 4734  
 <211> 201  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-A2  
 <400> 4734

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 taatgtggtc gattggtttg gttttgttat atattatgca tttgtatggg ggtcagtcga 120  
 tgtttgaact ttgtataata tttctttggg tctagtata aatattttcc cttnnnnnnn 180  
 nnnnnnnnnn nnnnnngggc g 201

<210> 4735  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-A4  
  
 <400> 4735  
  
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 agctccgatc tgataggaac tgtgagtttc cttgagtctc cggagaaaga agtcgccgat 180  
 ttgctcctga taatcttagt ctcgaaatca aaacgatgtt ttgcgattgc ttctactgga 240  
 ataaagggtt ctccgagttg gaatcggaat cgtccgagtc aaagcccttc tcgcttccat 300  
 ctctcttccc tcaatggcca caaggcanag gttttgctac tgggaangat aagtcttgga 360  
 gaaatccaag tggtgaaagt caccgagttc gatagaattt gggaatgtgg naactccgcc 420  
 tgggaaaata agaatt 435

<210> 4736  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-A6  
  
 <400> 4736  
  
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 caaaaacaat ggctaaaccc acatcacgaa atgaccgatt tgcccttttc ttcataaccc 120  
 taattttcct gatcctaacc gtttccaaac cggtcgcctc tcaaaactgt ggctgcgcct 180  
 ctgacttctg ttgcagcaaa tatggctact gtggtacgac cgatgagttc tgccggcgagg 240  
 gctgccagnc angaccttgc cggagcagtg gangcgggtg agatcctgct gtttcacnan 300  
 aaggaacggt gacacctgac ttctttaact ctatactaaa ccaaagaggt gattgtcctg 360  
 gcaaaggatt ctacactcac gacaccttca tggccgcagc taattcttac cctancttcg 420  
 gtgcttccat ctccaaacnc gaaatcgcn ggtttttcgc tcacgttanc caagaacaa 480  
 ggttc 485

<210> 4737  
<211> 404  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-025-Q1-E1-A9

<400> 4737

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tctgattcca ggtgttgcca gctgtttttt tttttgggag atattttttt taattccttt 180  
taaagttagt tataagtcag ttttgtctgc ttggattttc atttataaaa caaggtggaa 240  
ttaggtttct tccgatagag aaaggggctt gattttggac aaaggcacgt gtcttagtct 300  
tttattcaag cttcgatcta taagttatga tttgggtttg gttttgagtt ctccaatttt 360  
agtcncanct ctgtggttgt tgtaactggg tttgtgatgg aacc 404

<210> 4738  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-025-Q1-E1-B11

<400> 4738

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gattacaaa tacaaaggat caatttttct tacatgaaca ctctgttgta atggcagagg 180  
agaatctaga actgagtctt ttatgtacag agagcaacgt tgatgatgag ggcattgattg 240  
ttgacgaaac tccgattgaa atttcgattc ctcatatggg tttttctcaa tcggagagtg 300  
aggagattat catggagatg gtggagaagg agaagcagca tttgccaaagt gatgattaca 360  
tcaagagact tagaagtgga gattttggatt tgaatgttgg aagaagagat gccctcaatt 420  
ggatttgga ngcttgtgaa 440

<210> 4739  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-B12

<400> 4739  
  
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 aatctcgagt attatggaga ttaatgttga tgaagaagct gggatcatca aagaagaaac 120  
 agttccactc ctggatgata aaaatcgaaa tcgggactta cctgacatag aaaggaacac 180  
 tatgatgcaa aaggcaatag gtaagacttt tcagacaaca gctaacttag ctaatctttt 240  
 acctacgggg acagttcttg cattccagat tttatcgcca atttgcacaa acgttggacg 300  
 ctgcgatcta actagcagat tcatgactgc gttgctagtt tccatctgcg gattctcttg 360  
 tttcatactt agcttcacag attcttataa ggatttgaat ggtagtgtct gctatggatt 420  
 tgcaacaatc caagggttct ggatnattg 449

<210> 4740  
 <211> 392  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-B2

<400> 4740  
  
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 tagttggggc tcagatgaga catgttcagg cccatgggcc gagaccatcg gttaatgggt 180  
 tttcaagaga agtaggaact acttttgatg atggtttagg gttggatttg catctcagtc 240  
 ttgcacctgc tggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
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<210> 4741  
 <211> 475



<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-B5  
  
 <400> 4741  
  
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 ggcttttaggc tccccagatc tctaatacgc gcagctttta gaaatggaga ctttcctatt 120  
 cacatctgan tctgtgaacg aaggacaccc tgacaagctt tgcgaccaga tctctgatgc 180  
 agtccttgat gcctgccttg agcaagacnc tgatagcatn nttgcttgtg anacatgcac 240  
 cangaccaac atgggtcatgg ttttcggtga gatcaccacc aaggctacga ttgactacga 300  
 gaagattgtc cgtgacactt gccgttccat tggattcacc tctgacgatg ttgggtcttga 360  
 tgctgacaaa tgcaaagtcc ttgttaacat tgaacaacag agcccagaca ttgctcaagg 420  
 tgttcacggt cacttcacca aacgtccaga agacattgga gctggtgaac aaagg 475

<210> 4742  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-B6  
  
 <400> 4742  
  
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 tgccgcgga gaggtatcat agtctcncga agaaagatat cttcgtctgtg ctttctcgtc 180  
 caattccttt tgatgatgat aataaggaag tatggattga tanagttaca ggacgagttt 240  
 gtatggcgat ttctgctaga ggaatgtcta ttactggaat tgaagaccgg agatattgga 300  
 actggattcc aacggaagaa tctaggttcc atgtttagc ctacttacag cagatttgggt 360  
 ggtttgaagt tgatggaaca gtgagattcc atctcccanc tgggtganac tctctatcat 420  
 tcagaatcca tctagggaga ttcacaana 449

<210> 4743  
 <211> 457

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-B8  
  
 <400> 4743  
  
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 tcaatgtggt aaccaaattg gtgccaaatt ttgggaagtc atctgtgatg aacatggtgt 180  
 agacceaaact ggtacatatc atggagattc agatcttcaa ttagaacgta ttaacgttta 240  
 ttacaatgaa gcaactgggtg gacgttatgt tccccgtgct attttgatgg atttgggaacc 300  
 tgggtactatg gactcagtcc gtgccggtcc attcgggtcaa atcttccgtc ctgataaactt 360  
 tgtcttttga caatctgggg ctgggtaaca attgggctaa aggtcactac actgaagggtg 420  
 ctgaacttat tgattcagta cttgatgttg tccgcaa 457

<210> 4744  
 <211> 337  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-025-Q1-E1-B9  
  
 <400> 4744  
  
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 ccattaacca ccacagatta tccagcaatg ccagttgctt agagagcctt ttcggttttct 120  
 ggtttaaaac ccaatgggga tggttctttt tttgggacag tactagtttt ctcatgttat 180  
 tctaagttaa tacttaaagt tctggagggt gaattacatc aaggatatga atgtatgttt 240  
 ttcgttatct tttgttttaa ttttatttat ctattaacga tttgtctttt ttttaattaga 300  
 aaatttgtgt ttatcgaaaa aaaaaaaaaa aagggcg 337

<210> 4745  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-025-Q1-E1-C11

<400> 4745

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cgtgggtttc tctatcttta actcccttca cacctctccc tctctcttct tcatatctct 120

ctctgtcaca atagtgtgat gatgcaatga gaatggagtt gatttcagtg attttcttct 180

tcttttgctc tgttttgagt tcctctgctt taaactctga tgggttggtt ttgatgaagt 240

ttaaatectc tgttcttggt gatcctctgt ctttattaca gacatggaat taaaaacacg 300

aaagtcacg ttcttgacga ggaatctctt gtaataacga ttctaaagtc ttaactttgt 360

ctcttcccaa ttctcagctt cttgggtcga ttccttctga tttgggttct ctcttaacac 420

ttcaaagtct cgatctttcc aataaatcct tcaatggg 458

<210> 4746

<211> 404

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-025-Q1-E1-C12

<400> 4746

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gtttcttttc tctttctgcg atcgatctct gaaaactcat aactgttggt taatcgtgaa 120

gatggcatca aacggatctt tctctgctca gagaaacgca aacgctagaa caacgatgaa 180

gagaagaagc gacaatcgcg gttacggtgg cggaatcgga gggtatcaag aggagacgaa 240

ccgttacgcg ccgccgcaaa aacgtttcag atcacaagcg caacagcaat tccgatctgg 300

tcataatcct ctgtatcatc atcatggtag taataataat aacgtgtcta nggtttctc 360

tcaatcatat aacaattgcg gtgttgatgt gaatgcttca aatc 404

<210> 4747

<211> 452

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-025-Q1-E1-A10

<400> 4747

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 cctactcatc gcatctacaa gcatgagtgt tgcattctct tcgatactcc gagatccgaa 180  
 ggaggattgt tcgttgatat gaatagtttt cttgctttcg ggaaggatta tgtttcttgg 240  
 aactatgaga agactggaaa cctgttttat cttcatatta agcagactag gaagtctatt 300  
 cccgaggatc ggctctctcaa gaaaccgact ctgctcgcta taggtgttga tggaggcttt 360  
 gataacaatg agccagagta cgaagagtct tatagcataa gtcatacttc cggattttgt 420  
 ttcactcccg tttccctccg gttgagctaa ca 452

<210> 4748  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-F9  
 <400> 4748

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 aagacacaac atttaccaa gtgttcgttg gaggattagc ttgggaaaca cacaaagtct 120  
 ctctcaggaa ttactttgaa cagtttggtg acattgttga agctgtcgtt atcactgata 180  
 aatctagtgg tagatctaaa ggctatggct ttgttacttt ttgtgatccg gaagcagctc 240  
 agaaagcttg tgtagatcca gctcctgtta ttgatggaag aagagctaatt tgtaatcttg 300  
 ctgcttttgg tgttcagaga tccaaacctt cttctccnat tcatggacat gtaggaggaa 360  
 gaggcattgaa ggtgactanc cctttcaaga cacactttgg gaccgcggct acngcnatcc 420  
 ttccccactt ccatt 435

<210> 4749  
 <211> 408  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-G10  
 <400> 4749

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 cagagactaa aaaggctggt caaacagtaa taantcttgc acatgaacac taaaccanaa 120  
 cgataacagg aaacaaagat acagtcagta ctcatgagtt tgaggggnagc tacgggaagc 180  
 aagtaatact acataggggn gnnattccag tgcttaatga tgaaacatca tcagtacaag 240  
 caaacgtggt tttcatcata caccgtatca ctttcacaan tggctgcagt cattccgcaa 300  
 gcataaggag attgacttct cagaancaac atcaactttg cgcaaaggag caaggnnacc 360  
 aggagatggg ganctctcan tgctacgcct ttcattgagan atccccct 408

<210> 4750  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-G2  
 <400> 4750

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 ccctcgtttc aatctccgtt ttgctttgcc tatcagataa atttcttctt gctttccttt 120  
 ctatctcata acgataagtt gaattaatct ttgcgtctta gttcatcagt agagagagta 180  
 ggggtttttc cgcttatctt tagggaattt cattttgttg gaggtgagaa tctctattcg 240  
 agtccccaag attctcttta tatccctagt ttagttgtat ggttgggttt tgattggaat 300  
 atcaaggggt agtttttagc taggttcaact gatacttggg agatctgagt tctttgggat 360  
 tctgttaagt ttgtggagat ctaaaagaca cgaaatttgt agaaatctgg ttgatatccc 420  
 anactttaaa aggaataagg gtanatccna tagaatttga ngcgggtttt ggaaaaattt 480  
 tt 482

<210> 4751  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-G3  
 <400> 4751

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 ggtaacggat cnagccanat tctcgggacn tcnagttcta gctccggtec gttcatttcc 180  
 gtttctaggg ctttcttctc ctctccact ccgatcaaag ctactctctt tcccggtgat 240  
 gggatcggtc ccgaaatcgc ngaatctgtc aagcagggtg ttactgccgc tgatgtggtt 300  
 antgattggg acgaacagtt tgttggtact gaagtanatc ctanaaccaa tantttcttg 360  
 acatgggata atcttcaatc tgtgcctaan aacaagggtg gtttgaaang accaatggct 420  
 actccaantg gaa 433

<210> 4752  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-G5  
 <400> 4752

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 tttcctgaac cagtgcagag attaagttga gctcaagact canagggata ttcttttgtg 180  
 ttgttgctgg catttcggct acttttctca ttgtcctgat gattattggg catccgttcg 240  
 tccttctctt cgatccctat aggagaaaat tccaccactt cattgctaaa ctttgggctt 300  
 ccataagcat ttatccgttt tacaaaatca acatcgaagg gtttgagaa tctgccatca 360  
 tcagacactc ctgctgtata tgttcaaacc ancaaaagtt tcctggatat cctnaaacc 420  
 aa 422

<210> 4753  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-G7  
 <400> 4753

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 catttcagct catccaccta ctttttccgg cgcttcattt cgctctcgct ctttctctcc 240  
 ccgattgttc aagtcttgtg ttaagtgcac ttatgctgaa gctggattaa gcagcgcttc 300  
 atggtcagcc cctattgaca ttgtggcaga tgtcaaatcc gaaagggttg tagttcttgg 360  
 tgggaatggt tcgttggctc agctatctgc aaagcancaa tctccaatgg gttaaanttt 420  
 ttg 423

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 <212> DNA  
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 <223> unsure at all n locations  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngggcg 168

<210> 4755  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-H10  
 <400> 4755

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 ggaagccacc gcaattgaag acaaattgca gcgtggtgtc cctgaagcaa tagaatcttt 120  
 gaggattgca gggataaaag tctgggtctt gactggtgac aaccaagaaa ctgccatatt 180  
 cattggcttc tcatcnagge ttctgacaag aaacatgagg caaattgtaa taaatagcaa 240  
 ctcgttggat tcatgtccga aggagcttan aagaagcaaa tgccaatatt gcaagtaatg 300

acgaaaagtg ataatgtggg ccttgattaa tgacggtacc aanctcatat atgtactcca 360  
 caatgattct tgaagatgtg ctgttccaag gtggcaatgn taagtgtccc tgcnaaaaaac 420  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-H12  
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 ttcgcatgct taaactctga gagaagaaga tgactatgac ggaggagaaa ccaacttccg 120  
 acgggaaagg angttggggg ttccttcaag attcaatttc gtaactcaag cgggtcacan 180  
 gaaacgccgc tttaaattgc tggctaactn ctncgggtt tcaatcctng ggangetncc 240  
 tcctccttcc aacttccntc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnttggg gtaataaacn ggtcctcaac 360  
 ggtgaatggg attnggggtc aaaaatcaac aatccggact cccttctccc ttcaagtttc 420  
 atccggttgg ctaagtcctt tccntnccta actaaaacga aagatttgaa gccttgatcc 480  
 ctccngaga aaactc 496

<210> 4757  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-H2  
 <400> 4757

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 taaaactaat aaagaagaag aagaaaacag agcaattaaa gtccttaaatt cttcttcttc 120  
 tccaattcaa tggctcttcc gttgccattg atcttctcta tcttctctca ttgttcggt 180  
 tctggagtta gatcaacgag cttcattatg gngaacaaat gcgaatacac agtctggcct 240



ggacttttat caaacgccgg agttccacca cttccgaaga cgggattcgt tctccaaaaa 300  
 ggccaagaac gaacaatcag cgctccaact tcatggggag gaagattctg ggggagaact 360  
 caatgttcca ncgacancga cggaaaantc acttgtctca acgngattg cggatttgg 420  
 aacctcgaat gctcnggtt cnggagcaac accaacaagc aacaactaac cgggaaattt 480  
 ttccccaa 488

<210> 4758  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 <223> Clone ID: LIB22-024-Q1-E1-H3  
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 acacaacttc tggagtttga gtctcgggtt gatgctgctg taactagaaa gaaagttgac 120  
 atccaggaag cccttaaaaa ccctccctgc atacagaaga ctcttaggat ctacgttttc 180  
 aactcgtttg ctaacaaaa caacacgac cctgggaatc ctaatgctga cccgccaaaca 240  
 tggactctta aaattattgg taggatactg gaagatgggg tggatcccga ccagccaggg 300  
 tttgttcaga aagcaaacc attgcatccc aaattctcgt ctttcttcaa aagggttaca 360  
 gtttccctgg atcagaggct gtatcctgag aaccattga tcatatggga gaatgctcga 420  
 ttaacctggc tcctcaaggg aaggctttga naataaaaga nggaaaggga atccaggag 480  
 tttttttttt tgcc 494

<210> 4759  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-H4  
 <400> 4759

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 tatgatctct tacctgaatc agttgtgaaa tctggttgca agattgttta catatggaga 120

gacccaaagg acacgtttgt gtcgatgtgg acttttgctc acaaggagag atcacaacaa 180  
 ggaccagtgg ttagcattga ggaagctttt gataagtact gtcaaggttt atcagcttac 240  
 ggtccttata ttgatcatgt tttagggtat tggaaagctt accaagcaaa cccggatcag 300  
 attttgtttc tcaagtatga gacaatgaga gctgatccat tgccttatgt gaagagatta 360  
 gctgagttat gggttatggg ttcacgaaag gaggaagaag aaggaaatgt tgttgagaaa 420  
 gtantgaaac ctttgtacct ttgagacttt gaanaanctt gaanctaacc aaaaaaaggg 480  
 g 481

<210> 4760  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-H8  
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 tatgagcgcg tttccaccgt acggagaaac tttcttccac cacccaaccg gtcgtttctc 120  
 tgacggtcgc ctcatcattg acttcatcgg tacttctctt tatttatgtg taaattgact 180  
 gttttggcgc agttttgtta ggtaaattt acataaaagc attctaattt tgtgtgttct 240  
 gttcactgaa ttcttaggtt tcttatgtca aatctttctc tgtttttcta ttttcttgaa 300  
 cagcaagtta acattgtgaa acctcaagtg atgctccaaa tttggttttc ctttgcagct 360  
 gaaattttgg gggcttcctt aangtgcctc ctaacttcgg atcaacaaat gggaaaaaaa 420  
 ccccnt 426

<210> 4761  
 <211> 434  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-025-Q1-E1-A1  
 <400> 4761

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gattttttaag agttacggca gtggtggcgg aggagtgcgc cgtagagacg cgactagtga 120  
aagaaaacct aactcaattc gcggcggaga tgaaaattcg tttccagatt gagtttgtgc 180  
tgatgaagac ttttgagatg ttatctttca aagcgattag gtttgttgag gaggagctta 240  
catcgggaact ccctcacgtt ttctcggcaa aaaaactcaa acctttctct ctaacttcac 300  
cgattttgag ttttaaacca acggttaagc tcaattccag ttgtcgcgct caattgatcg 360  
atacggttca caatctcttc atcggagttg gagttggact tccatgtacg ggtaatggat 420  
gtggtgataa gata 434

<210> 4762  
<211> 422  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-024-Q1-E1-F8  
<400> 4762

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ttacagaagg tgtacaagag ttacagaaca agaaggaact tagcggattg cgcggttggt 180  
gttgaggagc tctggtggaa gactctggat gctgcagctt taaatttgag ctcaagtcgcc 240  
ttctttgaag aagagaaaca tgaaaccgcg gtttcgaagt gggcacgagc taggacacga 300  
gctgctaagg ttggaaaagg attgtcaaaa gatgaaaaag ctcaaaagtt agctcttcag 360  
cattggcttg aagctattga ccacgccat cgttatggcc acaacttgca cttctaatta 420  
aa 422

<210> 4763  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-023-Q1-E1-D11  
<400> 4763

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ctttcagctc actcctctg gtgatcaaca aacagtttagc actagcacag gagaaattac 120

acatcatgaa gagaagaaag aggctattga tcaaattgta atggctgact ttggcgtacc 180  
 tggaaataga gctgttgaag aaggagctgc agagggtggg attccgagt gaaaagctga 240  
 agttgtagtg tttgatgacg cgggtgcacag tttccggaac gtattccaga accaagttga 300  
 gataaagctc atcttttttcg gttgtagaga agaaacaatg tttcaaagac acaacatttg 360  
 gatgggtcaag tagcctcatt gtttgaagct cagcattctt gtacctccga tctttagata 420  
 ctttct 426

<210> 4764  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-D12

<400> 4764  
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 tgagaaaatc ctttttggtc ccagctactt cagccctttg ctgaaatcaa tcccaaacia 180  
 aggaggaggt gaccggctta tgataggcca agacattgaa gtgcgagatg gttttatcga 240  
 agctcttgaa tcgagattct tgtttctagc tgcagatgct cgttcaacac tcagggggtg 300  
 gaggccttca tacagaaacg ttttacttgc ggtgagaaat aatttgaata ttccctgctc 360  
 caaccaantg ccaaccgaaa gacctagaag cagagatttt tccttaacct gtcgacaant 420  
 tccccgaagt 430

<210> 4765  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-D2

<400> 4765  
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 ttactctcat tgggtctgcac acaccaaaaa ctttcttctt ctagcaataa caatcatatg 180

gatgaagaag acgatgtcgg tgacaaggac gctaagccta ttacaagaga gtacttacct 240  
aagatcgtgg tgattttggc cggagacaat aaacctactt gcttggctgt tccggtcgtg 300  
gttctctcac ccacttccat ttttcgttgt aactgtgaca atgttactgt catctcaacc 360  
taaccattaa catctttttc ctcttttgcc gacagaaaga ttaagagatt tcgacttttg 420  
taataatcaa cggcaatttt gtaacaatcg ata 453

<210> 4766  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-023-Q1-E1-D9

<400> 4766

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atggaagcag tgaagcaagg atctgcagca attggactca gatctcgttc tcatgtcgtt 180  
ctcgcttggtg ttaacaaagc tcaatcggag ctttcttcgc atcagaggaa gatctttaa 240  
gtcgatgacc atatcgggtg tgcaatcgct ggtctcacag cgcacggtcg tgtattgtct 300  
cggatatatga gatcggaatc gattaatcac tcttttactt atgagtctcc tcttctgtt 360  
ggtcgtctcg ttgttcatct tgctgataaa gctcangtct gtaccaacg atnatgggaa 420  
acgacctat ggt 433

<210> 4767  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-023-Q1-E1-E11

<400> 4767

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ggttatatta tatatttaca cttatgcaca cggctgtctc aacaccaccc gatgatcctg 120  
tcaaattgtg gtcaggaaac acgaactgta cagtcactaa ctcatagga gccttcccag 180

acaggtccac atgtcgagcc gccaacgtgg catacccaaa aactgaagcc gagcttgtct 240  
ctgtcgtggc tgcagccact caagccggac ggaaaatgcg tgtaacaact cgatattccc 300  
atagcattac taagctcgtg tgtaccgacg gaaccgaagg tttgttcata agcacaaagt 360  
ttctaaacca tacggtacaa gccgatgcaa cagccatgac catgacgggt gagagtggca 420  
tgacgcttan g 431

<210> 4768  
<211> 451  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-E4

<400> 4768

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gcgttatcga aaaacagtaa cagtaacagc ttttaacaaga agaaagtttc gtatatctca 120  
gtcccttctc agatcataaa ctctttatca tcttctctcat tacaatctct tcttgtttct 180  
cccaagaaat catcaagaag caccaacaga ttcagcttct cttataggaa ccctagaatc 240  
tggttcttta ctctcttctt cgtctcactc tttggaatgt tgaaactcgg tttcaacgtt 300  
gaccaatct ctctcccttt ctacggttac ccttggttcaa cgaccaaca accactaagc 360  
ttcgacggag aacaaaacgc tgcattccat cttggtttgg ccaagagccg atttgtctac 420  
tggtgcatcg aattcgaatg cgaatataca a 451

<210> 4769  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-023-Q1-E1-F1

<400> 4769

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aagagagtga ggttgaagag aagaaagaaa acagaggtat agacgagagc gaggagagta 120  
aagagaaaga tatagatgag aaagcgaata ttgaagaggc aagagagaat aattacaagg 180

gagatgatgc ttctagttag gtagttcatg agtctgagga gaagactagt gagtcggaga 240  
acagtgagaa agtggaagac aagtcgggta taaagactga agaagtggaa gattctgtta 300  
tcaagagtgt ttgcctaac acaacagata atggggaaag cagtagtgat gagaagagta 360  
ctggttcgtc ttcaggtcat gaatccggat tccttggagg gaataaaatc tganggtgaa 420  
tctatggaga agaatgagtt gttggagaan ggat 454

<210> 4770  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-023-Q1-E1-F11  
<400> 4770

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aaggatcatca cttgtctcgt cggcgctcgca tttcaagaag aggacacagt caacacagtt 180  
ctcgatcaac ctttttgacc ggagaccaag aaaaaccaa tccggcgctg ttgcagccat 240  
cagcgaggat ttgggtcaaaa cgctgcgttt tccacaacg accggagaca gaaagagcga 300  
agaggaggag aaagcggcgg tgaagttcaa ggtgagagct gtggttactg tgaggaacaa 360  
gaacaaggag gatttgaaag agactcttgt taagcatttg gatgcttttg ctgataaaat 420  
tggtcgaaac a 431

<210> 4771  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-023-Q1-E1-F12  
<400> 4771

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tgcgtgtata caagccgccg ctttcgtcat ctttcgacga gaggaagag ctgcttgcgt 180  
acaaggaaag caccaggaaa tcgataaccc acgttgggtt tcaggaatct atgggtccgg 240

tgaggttcag accgaagaaa gctgctgtct tgatatgtct cttcgaagga gacgatggtg 300  
 atttgcggtg gattcttact aagaggtctt ccacattgtc tactcactca ggagaagttt 360  
 ctttgccaag gtggtaaagc agaagaacat gataaggatg atgggattac tgcaactaag 420  
 agangc 426

<210> 4772  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-F4  
 <400> 4772

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 ataagatctt actgtcttaa aggccctgaa gctttctctg caaaattctg gttccctttc 180  
 cctaaactca aacatcttga gcttatcttg attctcttct tctccttcct ctccatcact 240  
 ctctcacc tagattttcc taatttcaac ttctcctctc tcaaaccaga caacctagaa 300  
 catgcttcca tgttcctcca cctcattatc tttgcggtgt tcgctctctt ctgcgaacta 360  
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 agaactcctc cttcctcant ttcaatccac 450

<210> 4773  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-F9  
 <400> 4773

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 caccgtcaga ttctgatgta agtattatca aagctcaaga acaatcacat catcagaatc 180  
 taacttatat atcaaaggtc cagaattttc tccattgaag ctggattcta aggaaagtta 240



tcaaaagttt tgagagcttt ggatagtga gctcaaagaa ctaaacaatg ggcttcagag 300  
 tttgtgttat tgtcgtcttc ttgggttgtc ttcttctagt ccctgagaaa acaatggctc 360  
 aagaaatgaa acgtgcatcg atcgttatcc aaggagctcg acgagtttgt gagaccgatg 420  
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 gtcc 484

<210> 4774  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-G12

<400> 4774

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 gcttctcttg agcgtgattc atcactgggt ttgcattttt tcttggtggg tattcttcaa 180  
 attgttcaaa gctccgacct tttcttctt agaatctgat tactggaatc ttgaagctgg 240  
 agagactcga gtttatatgg tttcaagcat cgttgagtca gagggatgat gtgaaagtgc 300  
 tagagaatgt gaatatggtt gtagataata acaattacaa gacgcagatt gagtttgcg 360  
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 cttgtacaga g 431

<210> 4775  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-G2

<400> 4775

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 agggaaatgc ccacctgct ggtccacatg ttcggatacc atttgcttca ctatttgata 180

ctctcggcat gtttttagct gatgagggcg ccgctcttgct cctctactca ttgttgcaag 240  
 ggaattccga ctttaaggag tatgtgttgg tgcgaactga tttggatact ttgttgatgc 300  
 ccatactgga gacgctgtat aacgcttcaa agagaacatc atctaataca atatacatga 360  
 tgctaattgt acttctcata cttagtcagg attcactcctt caattcaagc attcacaaga 420  
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<210> 4776  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-G3

<400> 4776

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 caaatgggtg ttggttctgg taatgagtgt gtaggagttc ccggtacata cttccctttg 180  
 aggaaaggcg gtagggttac tctgtatcag gatgctcatg ttgatgacgg tactcttccg 240  
 agtgtacatc ttgatggtgg gattcagtat agacatggaa agtgctggga ggatatggct 300  
 gatgcaataa ggcaggcaag aagggtgatt tatatcacag gttggtcagt tttccatccg 360  
 gttangctgg ttcgtcgtac caatgatccc accgaaggta cattaaggga gttgcttaaa 420  
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<210> 4777  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-D10

<400> 4777

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 tcttcggatg tttatttgcg ttgtcctctg caatagaaga ggctacgaag ttaggatcag 180

tgatagggat agatcttggg actacttact cttgtgttgg tgttttacaag aatgggtcatg 240  
 tcgaaattat tgccaatgac caaggaaacc gtattacacc ttcattgggtt ggttttactg 300  
 actctgaaag actcattggg gaggtctgta agaatacaagc agctgttaat ncagaganga 360  
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 gggatagga 429

<210> 4778  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-022-Q1-E1-H10  
 <400> 4778

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 ctgcgcgtta agatggcgcc ggcgacggag catcagagct cgttcttgag tcgactaagc 180  
 cgtcgcaatc aagtggtttc caaggagggt aaccacgagc aagagcaaag aagaactcga 240  
 agattttcaa aaacacgtag ctgaacgttt cgcggagctc ttacaacgct ggattcgccg 300  
 gaatcttacc cgatcttcga ttcattggta aggaanttct tgagtttcag tcaaagaatc 360  
 gnggttcacg gttttaaaac gaatcgcca aattcgaaac cccgttgga anttgtccg 420  
 aatgctgatg ggtgtaagcc tgaattgtc 449

<210> 4779  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-022-Q1-E1-H11  
 <400> 4779

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 ccctgtcttc gccgttcatt cgactgacct caagaaatct acccaatcag cctccgcttc 180

ggttaaatgg agtctagaga gttggaagtc gaagaaagct ttgcaattgc cggattatcc 240  
 tgatcagaag gatgttgatt cggttctaca gacgctttct tcttttcctc ctaaagtttt 300  
 cgctggtgag gctaggaac tagaaggata agcttggaac ancggnatg ggtaagcct 360  
 taangcttna aggnngtaat tgtgctaaaa gtttcangga atttaaggca ataacattag 420  
 ggancctt 428

<210> 4780  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-022-Q1-E1-H12

<400> 4780  
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 tgatgcaggg gggaagtgt actcaataat ggagatatgt cggctttttg atcaaataatc 120  
 caaagagcat cttgatggan tgcgtgctgg tggtgaaaaa gtgtacaacg tgtttgataa 180  
 ccagcttcct gcggctctga agagactcca atttgacaag cagctagcga tggacaacat 240  
 ccggaagctg gtcactgagg ctgatggta ccagcctcac ttgattgcnc ctgagcaagg 300  
 ttaccgtcgt ctcatgtagt cttcnattgt ccccatcaaa ggccctgctg aagcatctgt 360  
 tgacaccgtt caangctatc ctaaaggatt cnggntcana antccngaa attaaancgg 420  
 tgggaactaa aacaaatacc caacctctga aaattggagg tgncaaaatg cggcgaataa 480  
 aant 484

<210> 4781  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-022-Q1-E1-H5

<400> 4781  
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 cttttgcctt caatagttat taccagaaga atccaatccc tagtagttgc aattttgatg 120

gaactgctat cactatcagt gctgacccaa gtttaggttc atgccacttt ccatctacaa 180  
gcacgagtga atcgatattg aacgtaacaa gtgaagatgg attagggctt ttcgggagaa 240  
taccatctca tccaactccc aagcctgaag cttcaacctc ctctcaaga actttgatct 300  
catttctcta ctccctttgc ttttgtgttt tatatccact tgttataacc ttaacatagt 360  
catgtaatat ataataggca actttttcta ggctaattca agacgataag ttttttcaaa 420  
aaanggttac 430

<210> 4782  
<211> 451  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-022-Q1-E1-H6  
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actatatttg gctttgatct tctcttgctt ttatctgatt tgctgtcaa gtcaacaaga 120  
aaccggggtt gtctacaatg gcttcgagca agcagatctt tttattgatg ggatcgccaa 180  
aatactacct gatgggcttt tgcagttgac aaatactaca gagttgcaaa tgggtcatgc 240  
tttcttcaag aagccgtttg attttgatcc atcttcatca ctatcgttct atacacattt 300  
tgtgtgtgcg cttgtgcctc ctaagttggg agctgatggg ggccatggga ttgtctttgt 360  
tgtatctcct tccattgatc tctctcatgc atacgcaact cagtacttgg gggtcctcaa 420  
caacttaaca aatggggact cctctcanat c 451

<210> 4783  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-022-Q1-E1-H7  
<400> 4783

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gacaggttga ggagtattgc tggtaggatt cagacagtgg taggtgatct agcaactcaa 180  
 ggagaaaggc ttcagtctct gctaagctgg cgtgatccgc gtgcaacagc gctcttcgtc 240  
 ttgtttctgct tgattgccgc agtcattctc tatgtgacac ctttccaggt tgtggctctt 300  
 tgtattggga tctatggcct gagacatccg anggtcagat acaaactacc aatcccgttc 360  
 ctctcaattt cctcaagaaa ggcttcctgc aagaaactga ttggatgctc tgacctgcaa 420  
 aaaactgctt ccaataccga nga 443

<210> 4784  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-A11

<400> 4784  
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 aaaacagtga gatgtgttcg gtgggggttat gaggttaata cctcttctga tgcttgcac 120  
 gacgcaatta actcctatct tcaacagggt cttagttatg ggaggaagag gaaagtgatt 180  
 ctagaagcac cactctacga taaagattgt gttttgggca gcattttagc tgctcatttc 240  
 ctttcttcat ctgaccttc tagagctaata tcttatgttg aagctgcggc atctaacttc 300  
 gaacaatcta caccttatga gaaagcgggt tacgaggctg ttacttacct aatctctgag 360  
 gatagggatg acgacttggc ttttgaaatg cacaccaagc tacttaaaag attcccaaag 420  
 gacttgg 427

<210> 4785  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-A9

<400> 4785  
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 nnnnnnnnnn nnnnnnnnnn ncttatacac ttactaatac agagtaacag agagagacag 120

agtggactct tcttagagta agatgggagg tgtgacttct tcaatggcgg cgaagttggc 180  
 gttttttcct ccgaatccgc cgtcgtacaa gctggtcaga gatgaaacaa cggagctttt 240  
 tctaattgagc ctttttcccc atcgagaaaa tgtcgacatt ttgcggctgc ccacgcgccg 300  
 aggcaccgaa atcgtggcca tgtacatcag atacccaatg gccgtcacca cccttctcta 360  
 ctctcatgga aatgctgccg acatcggcca gatgtatgag ctcttcacgc agctcagtat 420  
 tcacctccgc gtcaatttg 439

<210> 4786  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-B1

<400> 4786  
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 gagcaggaac tatgcagcga aagagattaa gtttggtggt gaagctcgag ctttgatgct 120  
 taaggggtgtt gaagatcttg ctatgctggt aaagtcacca tgggtcccaa gggacgtaat 180  
 gttgtgattg agcaaagttg ggggtgctct aaagtgcaca aagatgggtg tactgttgcc 240  
 aaaagtattg agttcaaaga caaaattaag aacgttggtg ctaatcttgt gaagcangtt 300  
 gcaaattgta ctaatgatgt tgctggtgat ggtactactt gtgctactgt cctcaccggg 360  
 gctatatattg cccaaaggat gcaaaatcag ttgccgcaag aatgaatgca atgggacttg 420  
 ccaaaaagta ttccatggca nttgat 446

<210> 4787  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-B9

<400> 4787  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncaatc gaactctgta 120

tacaactctt tctcaagtg tttctccgac aagacgaaat ctccacaatc ccaaatcact 180  
gacaatgtct tctctcagac aaacctgtct ttctcctccg ttcttcgtgc ttacatccgc 240  
aatgcgaggt tcaacacttc ctctactctt aaaccaccca tcataatcac tctcgtctcc 300  
gagagccacg tcagcgccgc cgtcacttgc tcaaaaaccc taaatttcct cctcaaaatc 360  
cgaagcggcg gccatgacta cgatggtctc tcttacattt ccgacaaacc atttttcac 420  
ctcgacatg 429

<210> 4788  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-023-Q1-E1-C1

<400> 4788  
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aatcaacagc agattagctc ttgtgatgaa gagtggaaag tacactcttg gatacaagtc 120  
tgttctcaaa tcccttcgca gctccaaagg taagctgata ttgatattcta gcaattgccc 180  
accgttgaga aggtcagaga ttgaatacta tgcatgctt gctaaagttg gagttcatcg 240  
ctacaatggc aacaatgttg atttgggtac tgcttggtt aaatacttcc gagtttcttg 300  
cctcagcatc gttgatcctg gtgattccga catcatcaag acacttcctg gagatcagtg 360  
attctgattt tgatgatttt gccatgttgt tctctatgct tgattatgct ttgtgttctt 420  
caaagactaa tggttanattt c 441

<210> 4789  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-023-Q1-E1-C11

<400> 4789  
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ccacgcgtcc gncggatct ccatcattcc cctgacaacg tctatggatc acctttgagt 120



ggggtgtcat ctcttgctta tgatgaagct ggagtcaaga gtaagattcg ggaacttgag 180  
 gtctcgtctgc tgagtgggtga tacaaaagtt gaagaattct caggtttttag ccccgctgct 240  
 ggggaagtcgt ggaactggga tgaacttttg gctttgactc cacagttgga cttgaaagag 300  
 gtgctgggtgg aggctgctcg ggcagtcgct gatggggatt tcgctacagc gtatggattc 360  
 cttgatgtct tggaacagat ggtgtcagtc tcaggcagtc cgatccaacg gctaggcact 420  
 tacatggcaa gaagggtta gagcgaggct tgaggggtct gggaacaata tatacaaadc 480  
 cttgaaatgc aatgaaccaa cgg 503

<210> 4790  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-C5  
 <400> 4790

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 cttcaaaagc caacgaaaaa cgaactcnan ccccgctcgtc tcacgccgtg ctaagatcct 180  
 catgcagctc cacgcgttac cctgagctct gtatctctgc cgtggtaact gncggcgggc 240  
 tcgagctaan gtcgcaaaaa gatgtcatcg aggcacnct gaacctaaata ataaccgccg 300  
 tggagcacia ttacttcacc gtgaagaagc tgatcaagaa gagganagga ctgacgccgc 360  
 gcganaagac ggggcttcat gacngtttgg agactattga ngagacnctg gacgacctca 420  
 ttaaacggtg ggaagatttc catttgtntc caa 453

<210> 4791  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-023-Q1-E1-D1  
 <400> 4791

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atttgatgga tcgccttctt ctgttgccgc cactcaacaa cattcgatga gatttgggat 120  
 cgaccatcaa caggttaaga agaaacgagg tagacctagg aagtannnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nctcctactt cgcctcttcc 240  
 ttctgcttct aattcttach nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn aactcttccg atccacctgc taaacggaac agaggacgtc ctcttggtc 360  
 cggtagaag cagctcgatg ctttangagg aacagganga gttgggttca cgcctcatgt 420  
 cattgaggtt aaaacaggag aagacatag 449

<210> 4792  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-022-Q1-E1-H1

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 acggtggcta agaattgtca tcgaagagct tcaactggagc ttcttcttcg gtgtgattat 180  
 cgtctatgga gttagccaag gacttggtta aggtctcagc aaagtcagca cacagtacta 240  
 cttcaaagac gagcagaaga tacaacctc tcaagctcag atttacgttg gtttgattca 300  
 gattccttgg attattaaac ctctccgggg aatgggtgac tgatgttgtc ccaagttttg 360  
 gggtacaagg agacgaacc tatttcaaata taanccggtt tttcctgcta tgattctcca 420  
 atgatgggtg ttatgggctt cacaacgnat cctgcacct tgcaactggg cnttgtccct 480  
 g 481

<210> 4793  
 <211> 489  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-022-Q1-E1-F11  
 <400> 4793

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tctgtgatgg ctctttccaa cgctcctct ctctccacca gatctatcta cggcggatgat 120  
ctttctcacc gtccaagcaa ccgtcaatca tccttcacat ttcacccgc cgtcaacacc 180  
aagcctaaat ccgttaacct cgtcacgggt gtacacgcgg ctgagccagc tagaaacgct 240  
gtttcagtca aagaatccgt ttgcgtcttc ttcgtctggg tgcattgaaa tggactccaa 300  
gagaagctgg gaaactgaag aaaggntcct ggcaaaacttt ctggattaac cctaaaggcc 360  
aattgaagcc ttgaagtcct ggtggcctaa aaaacgaata agaagggtt tttcctcccg 420  
aaatggtggt ttcggcccgg agaaagccta agggaatcct tggaaagaag aanaatttgg 480  
gttgaatgc 489

<210> 4794  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-022-Q1-E1-F2  
<400> 4794

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caccacagga ggaacgatct ccgtcgttg acgattgcct taagctattg aaaggggaga 120  
gagacganca gaggctcgcc ggtctacttc tcgtcaccaa attctgtaag aacgatgaca 180  
tcgtttctct caacaaggtc tacgaagccg ttggtactca cttctctgac cgtcttttcc 240  
gtactggtag tggcantggc gatgggggtg ataatcgtga tgtgtatctg canatatcta 300  
tcactgttct tgctgcattc tgccgtgttc cgggagatag cttcttcaga agagatggtc 360  
tccagaattc cccttattct ccaanntaat gtccaaagga ataactacaa aacatgctcc 420  
aagattgcta agaaccttct gtattggngt caacggc 457

<210> 4795  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-022-Q1-E1-F5

<400> 4795

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taggattggg gaagagagat tgagagtctc aagggtgtgag agttttcttg agatttttgt 180  
tagagaagga tgtgagatgg tggagatgag tgttactgat catgataagt ttgctgctga 240  
atcacagttt ataactcata ctcttggtag gcttttgggg atgttgaagt tgatatcgac 300  
gccgattaat acgaaagggc acgaggcggt gcttgattta gctgagaata tttgtgggga 360  
tagttttgat ttgtattatg ggttgtttgt gtataataac aactctttgg aggtgttaga 420  
gaagattgat ttggcttcga ngcttgcgta aggacctt 459

<210> 4796

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-022-Q1-E1-F6

<400> 4796

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tcctcctggg tttgatacgg aaccagtccc aatcagtact taccgagaca atgaacctgt 180  
cccgtttca acttaccgag aaaatgattc agatcatctc gacgccactc agcaagagaa 240  
cgatgacttt tgggaaaacg gtttcagtag ggaagaggcc attgaagatc cagagccttc 300  
tcaggcaaaag gaaaatggaa agagaagtgt agacaacagc gctttcactc atggggaaac 360  
tgatctcaat caacttctcg cgattcctcc gggttcaact gggtaaggt ttgccgtatg 420  
cccctgttga ttggncaaac cctgggtgan gttatggact tggaga 466

<210> 4797

<211> 464

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-022-Q1-E1-F8

<400> 4797

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aagctgtgtt gcaattgagc attcacgagg aaagaatcag gaagaaagcg tttgtcaccg 120  
tttctcgatg tccaggtgtt acttcgataa caatggatga caaaaccggg aaaatgacag 180  
tagttggtga agttgatgta ccggttatcg tgatgaagct aaggaagcta tgtaacacag 240  
agcttgtttc gggtgaagtt gttaaaccac ctgagaaaaa gcctgaacca gagaaaccgg 300  
ctccacctaa accagctcca gctccagcta aaccggctga aattgttgcc tggccggttc 360  
agatgaacaa cccttaacaa tacaatcctg cctatgcaaa ttcttactaa caaccatatg 420  
gggaactcta gatttgtaac ggacgaatcn aattgtgtga atta 464

<210> 4798

<211> 462

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-G1

<400> 4798

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ccaaaaaatc gtagaagttt ggattgattt cactatggag gaagtagcag ctaaggttga 180  
ggaagaaact gtggaaacca atgtagatgc agtgaaagag gacaatgcaa ctatagctaa 240  
tgaaagcaga agcccagaga gtgtttctgc agtgtctgtg gtgtcaaata gagctgcttc 300  
tactaaaaag aaaccagtta ttagttcgaa ttaataaaag ccaactgcgt cttcttcatt 360  
acgggtctcg ggtactacgc ctgtgactat caaggagaaa taatactgga gggagttaca 420  
agagaattaa ctggtactcc taaaggctctg cctaaacaaa tg 462

<210> 4799

<211> 493

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-022-Q1-E1-G10

<400> 4799

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gaggagatca cagatcttct tttcatatga agagatcttt ctttctcttg tatgtgctcc 180  
tggtacaggc cttctatggg gcttggtgta ntgttgagga aagcctgcat tgtgaatatt 240  
ccaatttagc gagtcttcac cggcctcaca gcgtatcgat tacagagttt ggancgggtg 300  
ganatggtgt gactctaaac actaaagcct ttcanaatgc tctgttctac ctcaattcct 360  
ttctccgaan aaagggcggg ggccaaacct ttttgttccc gcttgggcca antgggctta 420  
accggggagt ttccgaccn taaacnagtc cacctcance cttaangggc tnagaataaa 480  
agggggggcaa acc 493

<210> 4800  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-022-Q1-E1-G2  
<400> 4800

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aaattcgaga gctatcttgg tcggaaaatc gctgttgatg ctagcatgag catttaccaa 180  
ttcctcattg ttgttggaag aactgggact gaaatgctca ctaatgaagc tggatgaagtc 240  
actagtcatt tacaagggat gtttaatcga acgattcgtc ttcttgaagc tggaattaag 300  
cctgtctatg ttttcgatgg gaagccccg gagttaaaga gacaggaact ggctaaacgt 360  
tactccaaga gagctgatgc aactgcagat ttgactgggt gcaattgang caagaaacaa 420  
aggaagacan ttgagaa 437

<210> 4801  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-022-Q1-E1-G3

<400> 4801

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tttcaatttc tcttgtaaaa ccctaaatta tgtacagcaa tttcaaggaa caagcgatcg 180

agtacgtgaa gcaagcgggt catgaagaca atgctgggaa ttacaataaa gctttccctc 240

tatacatgaa cgcgcttgag tacttcaaaa ctcatctcaa gtatgagaag aaccctaaga 300

tcagagaagc tattaccag aaattcaccg agtatctccg tcgtgctgag gagatccgtg 360

ctgttctcga tgaaggtgga tngggtccag gatctaacgg tgatgcaacc gtcgcaacga 420

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<210> 4802

<211> 459

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-022-Q1-E1-G5

<400> 4802

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aacaatggcc aaaaccagag ggtcttggtg tctcgtcaac gctctaactg ctatagcttt 120

tttggcgaca gccatttgt gtgaagctgg cttgtctcag aaagaacagg acaaggctctc 180

gaaattgcct ggtcagaatt ttaatgttag ttttgctcac tactctgggt ttgttgctac 240

taatgagcaa ttgggaagag ctctctttta ctggttattt gaagccgttg aagatgctaa 300

gtctaagcct cttgttctct ggctcaatgg aggaccagga tgttcatctg ttgcatatgg 360

tgaagcagaa gagataggac catttcacat taaggcagat gggaagactc cttaccttaa 420

tcaatattcc tgggnaccaa agctgnaaat aatttggtc 459

<210> 4803

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-022-Q1-E1-G6

<400> 4803

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gattgggcag tgaagatgca acactttccc aatggtaaga gtactcttta caatttttag 120

atttgtgttg tcacacatat tgaaatatat atatggtata tttggacgaa aaaaaaaaaa 180

aaagggcggc cgctctagag gatccaagct tacgtacgcg tgcattgcgac gtcattagctc 240

ttctatagtg tcacctaaat tcaattcact ggccgtcggt ttacaacgct ntgactggga 300

aaacctggcg ttaccaact taatcgctt gcagcacatc cccctttcgc caactggcgt 360

aatagcgaag agggccgcaa ccgatngccc ttcccaacan ttgcgcaanc ctgaatgggc 420

naaatgggaa ncngccctgg taaccgngc aatta 455

<210> 4804

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-022-Q1-E1-G7

<400> 4804

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cgccgtgatt cttggttttg gtgctttctt tgccgtcttc acatcttttt tggatatggtt 180

agaaaaacga tatgtgggag ctggtcatat atcggaatgg ttcaatacag cgggaagaaa 240

cgttaagaca ggacttattg caagtgtcat tgtatcacag tggacatggg ctgcgaccat 300

actgcanagt tcaaacgtag catggcagta tggggttagt gggaccgttt tgggtacgct 360

agtggagcca ccatacaagt gctgttgttt ggtgtgatgg cgantgagat aaa 413

<210> 4805

<211> 398

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-022-Q1-E1-G8

<400> 4805



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ggaagtaaga gaagaaatct tcatgatgaa acagatcaaa atgttattgc ttcagaagac 180  
actgtatacc gctacttggt tcccgtgaaa aagaccggga gcattatcgg gaaaggcggc 240  
gagattgcta agcagataag gtctgagact aaatcaaaca tgaggataaa cgaggcttta 300  
cctgggttgt gaaggagcgt gttgttacca tgtantcca ctaactgagg agttgaatca 360  
ttttgggaga tgatggtgaa ccttgtntgt cccgcctt 398

<210> 4806  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-022-Q1-E1-G9  
<400> 4806

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aggaatctga acaggaaaca agaatggncg tggctgattg gcttggtttg ggattaggct 180  
ctgttgctgg agctttggtc tcggaaggtc tgaaagtttt gatttcagag gcaaagaagg 240  
tgtagcttt caaatctgtg tctaacgagc tcgcatcgac gatggagtca ttgcttccgg 300  
tgatcaaaga gatcgaatcg atgcaagatg gtatggaact acaagatctt aaaagacacg 360  
atcgataaag ctcttttact ggttgagaaa tgttcacatg tcgagaantg gatataatcc 420  
tgaaatccga agtacaccag aaaaantnag ggaatcaata ggaagatgcn cca 473

<210> 4807  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-022-Q1-E1-E9  
<400> 4807

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gagagatgga ggaatataga ctggagagc tgagacactt gctgacaacg gttttcctgt 120  
 cgggattctc cgagttcttg gtgaagccag tgatgactga cgtcaccgtc gccgcggttt 180  
 gctccggcct aaacgaaaca tgttctctcg ccgtctatct caccggagta gaacaagtga 240  
 cggtaggact ggggacaatg gtaatgatgc cggatgatcg gaatctatcc gatagatatg 300  
 ggaatcaaaa cattactcac tctccgatg gtgcctctc caatcctcct ccaaacgata 360  
 attancgtta tanaaaggga tacgaaattc cttccnaccg gttttacaat aaccaagat 420  
 tccaatcnga naatggcccg gccaaaggga ccggtt 456

<210> 4808  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-C12  
 <400> 4808

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 agccttttgc atgggaaagc aaagaatttt tgaggaaact ttgcatagga aaggaggttg 180  
 cattcaaagt ggattacaag gtggaagcta ttgctggaag agaatttggc tctgttttcc 240  
 ttggcaacga gaatcttgct aagcttggtg ttaaaactgg ttgggcaaag gttaggaggc 300  
 caggtcagca gaatcaggac aaggtagtc cttacattaa agagttgcta cagcttgaag 360  
 agctggccaa gcaggaagga tatggtcgtt ggagcaaggc tcttggtgct gctgaagcat 420  
 ctatcagaaa tctcctcct tctgcaatgg ggaa 454

<210> 4809  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-C2  
 <400> 4809

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ttccaccaaa gcatcatatg ccagtgattg actcttctcc aaaacttaag cctagaaacg 120  
acagaatttc accttctcct gctgctaaac atgaggctga agaggcgatg tcagttaagc 180  
gtaggcaaag aacacctcct actttgccaa gaagaacgtc tttgatagcg caccagtcga 240  
gacaactagg agcagatatt tcaaatatgg cagcaaagga aaccgcgaag ctacatccat 300  
ctgtgccatc agagtctgaa actaattctc atcaatctcg tgttcatgct tctcctgtga 360  
gtacgacgcc agagccaaag agaacctctg ttggatctgc caaaggaatg cagagtgaag 420  
gcagcaactc tatctcgtcg tcgttggtcca tgcangcatt gagctctgtg atgatgcttc 480  
caccocatat attga 495

<210> 4810  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-C5  
<400> 4810

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accactccca atttctccat ctctctctca attctctctt tcctcttctc ctttatcaaa 120  
aacgcagcga ttcactctc caagccaggg ctctcgtcta cggactttgt gtaccaaagt 180  
catcatacca aacatgcaag attcaggatc accaccactc tcttatctta ctacagcgaga 240  
agccgctgag attgatgaga ccttgatggg tcctcttggt ttctccattg atcagctcat 300  
ggaattggct ggtcttagtg tggcagcttc aattgctgag gttataaac cggaagaata 360  
tagccgggtt ctagctatct gtggctctgg gaacaatggt ggtgatgggt tgggtggcngc 420  
gaagcatttg cancactttg ggatataaac cgttt 455

<210> 4811  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-C6  
<400> 4811

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tgaagctgtt cgtcggacaa gttccgaagc acatgacgga gattcagctc ctcacattgt 180  
ttcgagaatt ctccatcgtc aatgaagtca acatcattaa agagaagaca acacgagctc 240  
ctcgaggatg ttgttttctg acatgtccta caagggaaga tgctgacaag gtgatcaata 300  
gttttcataa caagaagaca ttgcctgggg catctagtcc gttgcaagtt aagtatgcan 360  
atggcgagtt ggaaagacta gatgttcttg actgttcgtg caatccagag cacaaacttt 420  
tccgtccngt aaggcttcca aangaatgtc tctgaaacct gaagtccagt ccntantcc 480  
tctgaatacg ggaccattaa gggtt 505

<210> 4812  
<211> 518  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-C7  
<400> 4812

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ggaagctttt agtatttttt tcaacaatcg cttttttttt tctcgatctc cgtgaagctc 120  
tcgaatctct ggttttgagt tttggagaat ggtgtttttc cgcagcgtat cggcctttac 180  
taggctgagg tctcgcgtcg gccacaatc ttactcagc aattctgtca gatggattca 240  
gatgcagagc tctaccgacc tggacctgaa gtcgcagctg caagagttaa ttccggaaca 300  
gcaggaccgt ctgaagaaac tgaagtcaga acatgggaag gtccaactgg gaaacatcac 360  
tggtgatatg gttattngt ggaatgagan ggatgactgg attgctttgg gaaaanctca 420  
ttgcttgacc cggaagaagg gtattcccct ttangggatt gtccgattcc tgaagtgcc 480  
agaaagtatt acctactgcc caatctggaa ctgaaacc 518

<210> 4813  
<211> 488  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-C8

<400> 4813

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cgtattctcc ctctctccgt cgcttcctct cctaaaacca cgtcggctct ctctccgcca 180  
ccatcccata accaccgccc cttcttcaag cgatctaaac gtttctcaa atgttggtctc 240  
tattccttct ttatctcgtc gatcttggcg tctcgttcg tctgattcgc ctctccgtgc 300  
ttgggtccggg gttccttctc cgatctctca ctcttagac acgaatcgtt tcagaaccgc 360  
cgctactgca gttcctgaaa gtgctgaaga aggtgataac agtggtaaat tgacgaangg 420  
tttggaact tggcttggtg gttcgctaag tggttaactt tcaatatcta ctttaacaat 480  
ctaacaaa 488

<210> 4814  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-D10

<400> 4814

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tcaaacgccg ttttgccctct ttgggtggcgc gtttcggccg gcaccgtgag agggcctctc 180  
ttctcttttt agtttttttt ttcctttgtg tcgatttttt ttagccggcg gcggctcctc 240  
cttctttgtg gcttaatcaa tgagttttta gtcgacggcg agcgggnata gttctctcag 300  
atggagggtc gttggtagat ctacantggg gaactatgac tctcgacgac ggcaagcaga 360  
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ggtagtgggtg gctcagtggt aaganggtac agaggt 456

<210> 4815  
<211> 458  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-021-Q1-E1-D11

<400> 4815

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ggaaggacat gactaaggat acaacatttg agtttgagaa gaagagaaac agacctgaga  180
gatacgacag gaacgttaca gagaatacac tcatggccat taagaagatt gctaagatca  240
gaaccgcaag ggaagccaaa catatcgaaa ataggttgaa gccaaacaag cagaagaaac  300
tcaatgacga tatgaaagaa cttgatcaga acattcatat ggtccaggct cccggggcac  360
agaagatcaa agttgatgtt tccgaaaaga agtctgttca aaacgaagcc atggaagagt  420
gattctgtgg taacaatatg atccgtctaa aagcctct                               458

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<210> 4816

<211> 362

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-021-Q1-E1-D12

<400> 4816

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aataattcgt ggttggtgca gactgggtcaa tgagcagtga ttgtcaaagg atttgactg   180
taaattatct atactctttg ggttttgatt atgaaaccct tatggatgat caanttanat  240
ttgttattaa tacagaacat tttttaggaa tttggattgg tgatataaat gtaaataana  300
tggtcaannt tggttggtta tantgatttg tttaatcaaa naanaaaaaa naaaaaaggg  360
cg                                                                    362

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<210> 4817

<211> 501

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-D2

<400> 4817

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ttccggcgta cgaatggtgg tcagaagctt tacacggcgt ancctacgcc ggtccaggaa 180  
tccggtttaa cggnacgggt aaagctgcta ccanctttcc tcaagtcac ttgaccgctg 240  
cttcantcga ctctatgaa tggttccgca ttgctcaagt tatatgaaag gaagcaagag 300  
gagtgtacaa cgcaaggcaa gcgaatggaa tgacattttg ggcaccaaanaa attaacatat 360  
ttaggagatt caccggtggg gaaaaaggca atnanactcc ccggcgaagg attcgattan 420  
taaccggnac ttacnnggg gnntaagtta taggactaca aggtgacnct tttgacgtcc 480  
ggnaaacact cccaatcat c 501

<210> 4818  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-D3

<400> 4818

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attacaaaga agctctctcc aagtcattgc tcttcttcca aggtcagcga tctggctctc 180  
ttcctagagg ccaacaaatt tcctggaggg ctagctctgg cctttccgat ggctctgctg 240  
ctcatgtgga cttaaccggc gggactatg acgcaggaga caacgtcaag ttcaatttac 300  
caatggcggt taccaccaca atgctctcat ggagcgcact ggaatacggg aaacggatgg 360  
gtcctgagct gggaaaatgc acgtgtgaac atccgttggg ccacagatta tctgctgaaa 420  
tgtgccagag ccacgccggg gaagctttat gtcggtgtag gagattctaa tgttgatnac 480  
aaatgctggg gaacg 495

<210> 4819

<211> 515  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-D4

<400> 4819

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aaacaatgca aattcaatgc aaaaccctaa cttttacagt ttcttcgatt ccttgtaacc 180  
caaagctacc attcccatct tccctcactt tacggtcatg gaatccttca tccccgagtt 240  
tcaggagctc cgctgtttcc ggaccaaagt catcactgaa gctgaacagg tttttaagaa 300  
actgtgcaag tacgaatcag gagcttggtg ttgatggaga aaccggaaat gggtcgattt 360  
cggagctcca aggagatgca gcaaatgggt cgatttcgcc ggtggaagtg gaagcagaag 420  
tagaagaagt gaaggtagat gatttggcga ctcagagcat ttggggacaa gatgaaagag 480  
atcgtcatgt ttaccggacc tgccgcggga ttgtg 515

<210> 4820  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-D5

<400> 4820

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cttcacaaat atgactgtga tgaatcacccg acacaagcaa tgtcattttc tcctcctcct 180  
tctgatcact gtcttctctg ccgcgttgga tgggtgtttct tccgagacag acgtcggagg 240  
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aagacttccg tacaacaag cgcggttgact tgggcgttat taaccnngn cccaaccgat 360  
gggccttgaa acaaaggggg ttnganttaa gtggggaagg atatcacgaa cgccccgaga 420  
aacaagttta aaatttgga ctttccgaat nggcntttta cgngnaacaa atgttgtcat 480



gggagtgtta ataaaattac ngggga

506

<210> 4821  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-021-Q1-E1-C11  
  
<400> 4821

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ttccctctct atcgccactc aagaagaaag aggagaaatc agagtgggtg atcgctcgacg 180  
gagagatgca cgagatcgga gatcacgtac ctctgctgta gcgtttcaca atcccgagag 240  
acaatatccc caataagcgc cggaaacagc tccgtgagca gttcatgcga cgaactcgtc 300  
tcgtttctta agaatcggag catgagccat ggtgcaagaa gtacatggaa ttgtataatg 360  
aggttagaga aaactgggag aggctttatt gggatgaagg atattcta 408

<210> 4822  
<211> 479  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-H5  
  
<400> 4822

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tacgaaagag cggtttgagt ttcagaagaa gagtgtgagg aaagaaagga tcaatgtag 180  
gttttatagc ttgaaggcta aggcaang atcgtaatt gaagggatta gtgtgtgaca 240  
agagaaagag cttacaaca aaaccgatta tggaagttgt tgggggttca tcatgtccgt 300  
ctgctctgcg agaantana acggctactc cgaagtttta acaagnacat ttanggcct 360  
tgaanatnaa cggaagcaaa ggctcancga caangcttcc atatanangg agcntggnta 420  
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<210> 4823  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-020-Q1-E1-H8

<400> 4823

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gaagcaacaa caatgtctga caaaaccaa accagagaca ataacaacgg tctcaatttc 240
aaggctaccg agttaagact cggtttaccg ggttctgagt cgccggagcg aagtcgactc 300
aagattcttg gctctcaaca agagtactgt cccgtgtcag gtgccaaaaa ggtgttctcc 360
gacgcattaa ccgactctaa caaatgggtc ctcnctcctg gattcaatac tgncnactgg 420
gtgatgtcgg tccgggtcct gggccccgta accccggctn tta 463
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<210> 4824  
 <211> 393  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-021-Q1-E1-A10

<400> 4824

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gttttctttc tctaaccatg agattgagaa cgggtgtgtgg aaaagtaacc ttttcttggg 180
aaatttcgtg gaagatcttt ctctgcaac atcagggtct gcaattacca gcgagggttt 240
atctgcacct gctgctgttg agaattccga aactgcagat tcgtatttct cgtctttgga 300
caatattatc gatttcggac aggattgggt gtggtcgtag ctttgaataa ttgatttggg 360
gaatgtaatg tctctctctt aatggcagta att 393
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<210> 4825  
 <211> 465  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-021-Q1-E1-A12

<400> 4825

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anttgggttcg atgcttcana ttgcanangc tgattccctc nacgagagta cacgtcatct 180  
tgcgattgag tttttgggta ctctggctna ggcgcgtnan cgtgccccctg cnatggtcag 240  
gaagcttcct caagtttatt gacaggttgt ttgctgttct tatgaagatg ctcgaggata 300  
ttgaggacta tcttgcttgg gaaaaccgct gaaactgang atganagatg ctggcgagac 360  
aagcaaacta cagcatnggt cannagtgtt tggatcgttt aacaattttc cctggggaag 420  
aaacaccatt gttccggttg catntcagca ntttttctgc ctaac 465

<210> 4826

<211> 511

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-021-Q1-E1-A4

<400> 4826

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ctgtttcgaa tagatggctt ctatttcaac cctttttccg atttctctcc acccaaaaac 180  
cgtacgatca aagccgttga aattccgagt tttgaccgt ccatcaaag cttccgggtc 240  
agaaactcct gatctaaccg tagcgacacg aaccggatcc aaagatctcc cgatccgaaa 300  
cataccggga aactacggtt taccaatcgt aggaccaatc aaagaccgtt gggattactt 360  
ttacgaccaa ggagctgaag agttcttcaa atcacgaatc cgtaaataca actccacggt 420  
gtacagagtc aacatgccac cgggagcttt tatcgccgag aatccacaag tcgtggcttt 480  
actcgacggt aaaagcttcc cggttttatt c 511

<210> 4827

<211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-B1  
  
 <400> 4827  
  
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 ttcccgaaac actcagcttt agctttcggg cacttggtta gactgctaaa aaaaggacca 180  
 gtggattacc aacgagtcac attacttatg ctcaaggcat tgctccaaca cactcccatg 240  
 gatgcttcgc agagtcccca catgtacaca attgtttcac agctagtcga aagcactctg 300  
 tgttgggagg cattgagtgt tctcgaagct cttcttcaga gctgcagccc ggtacaaggg 360  
 ggcaccggtg gatccacccc tcaggattcg agttactctg aaaacgggac tgatgagaaa 420  
 acgcttgtag ctcagacttc atttaaagcc cgaagcggac tcttcatacg caatgatggc 480  
 tgcaacaatg tcgca 495

<210> 4828  
 <211> 402  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-021-Q1-E1-B11  
  
 <400> 4828  
  
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 gtttcaaata catcctccga taactatatt cgtttcggtta gatctagatc tgagcgtcgg 120  
 tgagagattt tctggatctg tgatacgttc caggaaacat ggcgacgatg aaaagtttga 180  
 taggtctgat aaacaaaatc cagagggcgt gtactgtcct cggagatcat ggcggtgaag 240  
 gaatgtcgct ttgggaagct ctcccaaccg tcgctgtcgt tgggtggccag agttccggaa 300  
 aatcttcagt tctagaaagt gttgtgggaa gagattttct gcctcgtgga tctggtatcg 360  
 ttacaaggag gccattggtg ttgcaacttc ataagactga ag 402

<210> 4829  
 <211> 451

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-B12  
 <400> 4829

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acatatgctt gcgtatactt ggagtaggtc ccgatggagg actagaaaac gcatgcaaac 120
gggccaggca atggattctt agccatggcg gtgtgattta tttccttgt tggggaaaag 180
tttggtcttc ggtacttggg atctatgatt ggtctggagt caaccgatg cctcccgaga 240
tttggttgc accttatttc ctaccaattc acctagggaa agcttttagc tatacccgga 300
taacatatat gccatctct tatctatatg gcaaaaaatt cgtgggtcaa attacacctc 360
ttattatgca actacgtgaa gaactacact tacaacctta tgaagaaatc aactggaaca 420
aagcgcgaca tctaagcgca aaaggaanac a 451
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<210> 4830  
 <211> 518  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-B3  
 <400> 4830

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tttcagacat aacatctctt cccatctctc tcccctctaa gcaattaagc agacangaca 120
ctgatgatat gagacgaaga gaaagaagtc ttatcactca tcctttcctc ttatgaatct 180
ctccgccgac caagctcccg tcaccgccgt cgacgaacta gctccgcctt ctcaaccgca 240
tcgcttatct acatcangtg atctccaccc agaagagcgt ttctccggtt tctgtccttc 300
ttgtctttgc gacngcctct ccgtcttaga tnanaangcc gctccgccac cgtcttcttc 360
ttcccgaaa cctcctctta nctccgctgt ttcgttaaaa gctctcttca agccctcttc 420
tagtggtaac aaacaactcc aacggnaaan nggtcggggt cagacccggg ttttctcccc 480
ggaggctccg aagttacaaa agtccttttt ccgcanag 518
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<210> 4831  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-B4

<400> 4831

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agctcggcgc ttgatctcgc tatctctcag agagctgaga gctgaggata ttggaaattt  180
ggaaggtgga atctcaaag gctgaacttc ctgggtcaa atagacatata ggcggtcgaa  240
tgagtcaact gctagagcag atatatgggt tttcgagaag atctttgttt cgggtcatat  300
ctatgggtcc tataccttgt catattgcct ttatcatgga tggaaatcgg agatatgcaa  360
agaagtgtgg tcttttagat gggctctggc acaaagcggg gttttctgcg cttatgtcga  420
tgctgcaata ctgctacgag ctgggtat                                     448
```

<210> 4832  
 <211> 506  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-B5

<400> 4832

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ttcactcaca agttttgagt atgttgaacc aaatgggaaa gatgtgggaa tcaacgtgag  120
aaagaaggcg gaaaacatag tcgctctttt aaataataaa gagaaaatct cagaaatcag  180
agacaaagca gtagcaaata gtaacaagta tgttggcctc tcatcaacgg gaataacata  240
taaactctgt tcctcagctt catttggtgg tagttttcaa agtggttcaa gcaattttga  300
cagctacaag gatagagatt ccagagaaga caagaatgac tacgagtctt ttcaaaagtc  360
aagacgtggt gttaaaactg aggagcaaag ctacacttct aagaagagtt tttcacgcta  420
tggcagcacg gaccatgaca atctatccag tggtaaaaag tcacccgatt ctgccaaaac  480
ataggtcata tgtatctgca gctcct                                     506
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<210> 4833  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-B8

<400> 4833

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attcttcata gaatagtcga aaaatatattg aactttctta ggaaaccaa ccaacaaaac 120
aaaaaggaaa acgagataat ggtgttacct tggagatcaa gaggaggagt agcaaagaga 180
cgtaatcaat tgatttccgg cgatatctcc gtcgtggaaa ccaagattcc agttcaactc 240
cgatcgccat caaggataga gcggattcag tcaccgcgcg tgctgttgac gccgcgtgat 300
gcggtggaga taagtcggag attgcaaaac gcancggcgc gtgaggagta tgccgagtgt 360
ttggagattg tgagcaaaat caagaacttg ggaaagaaga aggggacacg aancaagaag 420
tgtttggtcc aaaaacggaa gcgttttggc tttgtctcct ggttttgaaa gattcgcggc 480
ggcgccntga tggacacat 499
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<210> 4834  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-021-Q1-E1-C10

<400> 4834

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gactctctag ggtaggggtt tgttgatttt catgcgttat tcttcattct cttctgcaat 120
tcgcaactag agaagctaatt tccattgaag ttaagggtggg gataattttt ggttttagna 180
nataactaatg gctggagtac tanctgggga atgttcttac agtgagagtg gnntttcatc 240
anactcaang aattcccatg aaaagcaaga anaggtttcc cgctgggtatt ttggaagana 300
agaaatagaa gagaattcac cgtcaangtt ggatgggtant gacttaaaga aggaaacata 360
cctccgcana tcctactgta catttttgca ngacttgggc atganattga aagttcccca 420
```

ngtttncaata tcnacagcga taatcctct

449

<210> 4835  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-H4  
  
<400> 4835

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cttcttttaa caagaaacca ccgctctgta caaaacaaag tctccgtcgt ttcttctccg 120  
ttctccggtc aattcgaatt cctcagagag aaatttgtgc tcgcgagttc cgcgtgaaat 180  
acatggaaat gttggcggcg ttggactcgc gttcttctct ccattctcat cgttccatgt 240  
ctcgcgttga cctttttgcc ggtgttcgta tgaaaccatc tcctacaagt cctgttccga 300  
atacgctcgc aatatgtggg aagtaaactc tgttgattcg actcttcctc ctccctttaa 360  
gtaattcctc cgtttgnntt tcctttgcaa ccggaatttc caagattcaa atccgaaagc 420  
tgtgaattaa cctggtaanc gtctcgtgt tagtcctaata ttaaggggaag tggattcttt 480  
cccgggggaa agaaattaa 499

<210> 4836  
<211> 458  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-F5  
  
<400> 4836

ggnttctcat tgttcctttg ttagacttat ccatttcaca ttccatttaa actaagagat 60  
tggattaaat tttcagagga atgggttcgaa ggcaagcgac aacaacagac tgtaccctgc 120  
tcacagggag acattctcag ccacagacga agaanaaaag attcttcaaa tcgacaggaa 180  
acacatcagt tcttacacaa gacgcaacag accagacatg ttctactcat cccacctcat 240  
cctagacaat gctggcctgt ctgaaccagt tttcgccacg ccttttagcc cgtcctcgtc 300  
gcatgaagag attacaagcc agttttgcac tgcaagagaa cagtcctcaa gtttatactc 360



agctacttct anaaagcaaa cgcagtggct ttaaccgcta nttctaatag ncacngagcg 420  
antgcncaaa aagctgctgt gatggtgaca tccaaanc 458

<210> 4837  
<211> 523  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-F6

<400> 4837  
  
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ccacgcgtcc gcggacgcgt gggttgcaat ggcttccttc acaacaactt cttcttcctc 120  
gcttctcctc aaaactcttc tccccgtaag ccacctgaat cgtttctcta cactctctgg 180  
tatccgcgtt ggcgattcat ggactcctct gtcgcggaac atctccaccg ctgggtctcg 240  
gcgtcgagtg gcgattgtga aagctgcgac ggtggattcg gattactcgt cgaaacggag 300  
caatagcaat gagcagagag agacgattat gcttcctggg ttgcgattac aatcattggc 360  
tcattgtaat ggagtttcct aaagatcnag cggccaaagt agggattaag atgatttgat 420  
acttacctta aacaactccn tgctactggt ccttgggaan caatgggnan nanggcgaaa 480  
gaangaaaca atgtntggca anttcaagtn accaacgaac att 523

<210> 4838  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-F9

<400> 4838  
  
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acagaaacat cattgattcc gatctcaagt tttgtctttt tgatttcata tacacagata 180  
catagataac aaacacacat ctttgatcaa atgtctggac tttggagatt gaggaatcta 240  
aagtctctag ctttacatgc tcgttcgatt tcacctgttt ccaatcttta ttctctggaa 300

ttaggatcat gccctcgtcg tcgtattcaa gaacgattca aatcggaaca aagnggcgga 360  
ngaagaagag gagatgattt ccggttccgg tgactcntcc ggaagttaag agcaagagcc 420  
gaantgtcct ccgttgcctca a 441

<210> 4839  
<211> 550  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-G1  
<400> 4839

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agaagggtta catggttagga aatgggctga tggacgattt ccatgacagg cttgggtcttt 120  
tccaatatat ttggtcgttg ggttttatat ctgaccaaac atacagctta ctgcaacttc 180  
aatgcggttt cgaatcgttt attcactcct ccaaacagtg taacaagatt ctggagatag 240  
cggacaaaga aataggtaac atagaccaat acagtgtctt caccacagct tgtgttgcca 300  
atgcttccca gtcaaataatg ttgctaaaga aaagacctat gactaaccgc cgtgagcgaa 360  
cagtatgatt ccttgtagcg gagaaacaca ctacaattta attcaatcct tccaagaagg 420  
gttcaaaaaa gccctccaat gttccaacca aggaacttgc aacaatccaa aaatggggat 480  
aacttgcaat tgatggctct tgaantgaac aactgggaat tgactcctcc cttcctccgg 540  
gtttctaaaa 550

<210> 4840  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-G12  
<400> 4840

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atgttcgctt cagcagctta tcaacttcaa gaatgcgggc caaatgtgtt tcanccaatt 120  
atagaaaaat ctcaatccgg gcatgttctc aggttggtgc tgctgantct gatgatccag 180

tgctggatag aattgcccgg ttccaaaatg cttgctggag atttcttaga ccccatataca 240  
 tccncggaac agcttttacga tccactgcct tgggtgacaan agctttgata cagaacactc 300  
 atttgatcaa atggngtctt gtactaaagg cactttcagg tcctcctgct cctaattggt 360  
 gggaatgggt atatantccg tatcantcag atttacgaca ttgggatcna caaagtgaac 420  
 aaaccatact tgccaataac aacag 445

<210> 4841  
 <211> 520  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-020-Q1-E1-G2

<400> 4841

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 cctctgtatt taagctttaa caccctgttt ttggtttcca acgttcaatc ttcattcttct 180  
 tctcgtgaa ggtgtgtttg gctctaacgg tttaaagctt tcttgaaaca ccaattgaat 240  
 cttttctctc taccggcaaa aaaaaaaga ttagtccttt taggtctgga aacgccaaga 300  
 tcaactcgtc taaaccttag attttgtctg catttcggga taatcatttc atcgtcaggg 360  
 ttcttcaacc aaactacatt tacagaagaa gaagaaagaa agaaaaagtt ccgttaactt 420  
 ttaagcgttt ggntaaacaa aactcaaagt tcctcctcaa tacatcgatn ctgatttcca 480  
 anattaaacn tcgaaaagag aaaaaagcct ctttaaataga 520

<210> 4842  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-020-Q1-E1-G4

<400> 4842

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ctctagctcc aggcgttaat ggtccaacat ggaacacatt gagattcgcg tttctgctac 180  
 tgggtctatg tctanctttc atgctctctg tagctttcac cagtggccaa tcantgttgc 240  
 ttgttcatgt tggctttctc attgttancg catctactct ctttatcctc ctcaattggt 300  
 ttcttgctca gacaggctta ctacaagtgg taacacagat gcaggagctg aatttggttac 360  
 cgtatgatca nnacaaatgg atcatgggca caaccnggtt gnangcaaga cgcttgtggt 420  
 aacaagttca acaagttatc naccagatta tatccaagcc aaattatgaa nggactgggt 480  
 ttggtacaac caagaaggnt tca 503

<210> 4843  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-020-Q1-E1-G6

<400> 4843

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 ccgccctccg ccgtcatcct tcagtcactc ccgttatacc tgatcaagcg cgtgagatcc 180  
 acacaactca cacgcctgcc ttctctgggt tctcccaaaa ctctggactc tggagcaact 240  
 caaattacgg ggaagacgtg atcgtcggcg ttttagatac tggaatctgg ccggaacatc 300  
 caagtttctc ggattcaggt ctcggtccaa ttccatctac ctggaaaggc gagtgcgaga 360  
 tcggacctga ttttcttgcc tcattcttga atcgggaagct tatcggagct cgaacgtttt 420  
 acagggatat taacgcaacg g 441

<210> 4844  
 <211> 506  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-020-Q1-E1-G8

<400> 4844

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accaacaagg atgatgattt ctctcttaag gccattgatt ttggtctctc tgttttcttc 120  
 aaaccaggcc aaatattcaa ggatgttggt ggaagtccat actatgttgc tcctgaggtt 180  
 cttctaaca catccttgaa tatttggtct ctctgttttc ttcaaaccag gccaaatatt 240  
 caaggatgtt gttggaagtc catactatgt tgctcctgag gttcttctaa aacattatgg 300  
 tccagaagct gatgtgtgga ctgctgggtg tatactctat atcttactaa gtgggtgtccc 360  
 gcctttctgg gcagaaacac agcaaggaat atttgatgct gtgttgaagg gatatatga 420  
 ctttgataca gaccctggc ctgtcatatc cgacagtgt aaagatctga tccggaagat 480  
 gttatgctcc aatccttctg aacgtt 506

<210> 4845  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-020-Q1-E1-H10  
 <400> 4845

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 tgctcccaga gataagcgtg ttgttagaga tgctactact gaggatgagc tttggtgggg 120  
 aaaggggtcg ccgaatatcg aaatggatga acatactttc atggtgaaca gagaaagagc 180  
 tgttgattac ttgaattcct tggaaaaggt ctttgtcaat gaccaatact taaactggga 240  
 tccagagaac agaatcaaag tcaggattgt ctgagctaga gcttaccatt cattgttatg 300  
 cacaacatg tgtatccgac aactcaagga ggagcttgag agctttggac tcccgnattt 360  
 acaatatata atgcctgggc aatttccaat gttaacgttt cactccanta caatgactcc 420  
 gccacaacc gtagaccnta atcctggct 449

<210> 4846  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-020-Q1-E1-H12  
 <400> 4846

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gtttgagtct gaggcacac aacagataaa gtcttgaact ttgatcaaga attctaaacg 120  
gagtttttgc tcttctcgtc ggtgaaagaa aaatcgagat gggttcaact ccgttttgct 180  
actctatcaa tccatctcca tcaaagcttg atttcacgag gacccatgtg tttaatcctg 240  
tttctaaaca gttttactta agatttaaca accgtttccg gaaaacccgg aggaataacc 300  
tgggtttaag anccgtccaa nctttgctcc gaantaaagg cggcnacggc gttaatttaa 360  
aaaggnngaa naaananaaa aggcgggttaa cgggnaagaa gaagaaatcc aagggtttta 420  
attgcccga ggtggaanc cganggattg ggggtttgcc ttaaccggcn aa 472

<210> 4847  
<211> 496  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-H2  
<400> 4847

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taaagccaaa gaccaacatg tctaattcaa accaaccact tctttccaaa ccaaagtctc 120  
ttaagcacia gaatctatgc cttgtcctct cttcgtagc cattcttggc tctgtggctt 180  
tcttcacagc ccaattaatc tccgttaaca ccaacaataa tgatgattcc ttattaacta 240  
cgagccagat ttgccatgga gtcacgacc aagactcatg ccaagctctc ttgtccgaat 300  
tcacgacgtt gtcgctctca aagctcaacc gccttgacct attgcacgtg tttttgaaga 360  
actcgggtgtg gcggcttgag agcacgatga ccatggtgaa cgaaggctaa gattcgctcg 420  
aacngtggtta agagacaaaag gnagggtttg ctggactggc aaggagatga tgggccgtac 480  
caaanggttc gggttg 496

<210> 4848  
<211> 517  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-020-Q1-E1-H3

<400> 4848

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ctgcttcttc tctgttttcc ggtagctttc tccggtcatg attatgggtca agctctttcc 180

aagagtcttc tcttcttcga agctcagaga tctgggtgtc ttctctgtaa ccaaagagtc 240

acttggcgct ctactccgg tctcaccgac ggcaaatcaa gcggcggtgaa tctgggtcgg 300

aggttactac gaacgcccgg gagacaatgt gaaaatttgg attaaccgat gggcttttaa 360

cgggtggaac gaatgaatgg gcgttgggaa gtgtgaattt gaagttaacng gggaaattca 420

aattnacaaa ngcccaaacg gggcgaaanc cttggggaaa actccnaatt tgacggccaa 480

attaaaatng ggggggtaac cggaattaa tttcaa 517

<210> 4849

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-020-Q1-E1-F3

<400> 4849

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cggaggattt cgctagagcg gtagacgatg ggcttaaact cgcgaaacgg atttatttcg 180

gcaaagaccg agccgttgcg gcgccgagac cacctgctcc gatggacaga ttttccacta 240

cgcagcctta ctttctaca gcacctatgg tttacgccgt tatacccgac ccgggaattg 300

tggataaccg ggatttgcct agctatcagc ctacttgca acggaagggtg caaccaaccg 360

gctttgatcc ccccggaaga tgaattcaat tganctgggc ttgaatggta accccaanac 420

ggtcctggtt aacggtcacc ggntcntggc ggttcattg ggttaang 468

<210> 4850

<211> 435

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-F10

<400> 4850

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cgtcagcctg gattggttga cgaggctttg acagaaatga gtggaagcca gttgagtttc 120  
tctagtgtcg tagatggagt gtttggactt cagaaagtga catctgctct tatgtcaatt 180  
gatggacatg gnttanttcc caaaaatctc tctgctgtta ccggccatgg aaaagctcca 240  
atgttgacta gctatcattc aaattccttg tataatcgac aggtgccctt acaatctaac 300  
tcttaaaata tgttatcatc tccccctggg aaaggttcaa ctatgaagaa gatanccatc 360  
tctaactctg accaagagtt atccctgata ctgtctcaac cctcctcaac tgggaatgga 420  
tcccctganc aggcc 435

<210> 4851

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-F12

<400> 4851

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caacacattt cttecgctgga catccccgtt attgatctaa gtaatcccgga tgaagagctt 120  
gtggcaagtg cgggtggtcaa agcgagccaa gagtggggaa tatttcaggt ggtaaccac 180  
ggaatcccgga ccgagctgat actgcggttg ctacaagtgg gaatggagtt tttcgagcta 240  
ccggagacag agaaggaagc cgtagcgaag ccagaagact ccttggacat agaaggatac 300  
agaaccaagt accagaaaga tctagaaggt agaaacgcat ggggtggatca tctctttcac 360  
cgcatctggc caccgtctag agtcaatcac aaattctggc ctaagaatcc tccagaatac 420  
attgaagtga atgaagagta cgcaagtcac ataaagaa 458

<210> 4852

<211> 469

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations



<223> Clone ID: LIB22-019-Q1-E1-F3

<400> 4852

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caaatactgt ttcagatcaa tcaatcagtc aatcatggct agctctggaa acaagaacat 180  
caacgccaaa ttggtattac taggagatgt tggagctgga aaatcaagtc ttgtgctacg 240  
gtttgtgaaa gatcagtttg ttgaatttca ggaatcaacc attggtgcag cttttttctc 300  
tcaaacattg gctgtgaatg atgcgactgt gaagttttga gatatgggat acanntgggtc 360  
aaggaacgat accacaagtt gggctccaat ngctactaaa ggggtgcaanc tgctgcaata 420  
attggccttt gcaattacta atcaaanctc aatttgaaag ggccaagaa 469

<210> 4853

<211> 511

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-F5

<400> 4853

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cccacgggaa gcgccaatct ctttctccgg cctctcatcc tcgccgttct ctcctttctt 120  
cttctctctt cattcgtctc ctctgttgag tggctcgata tcgattcttc agatctcaaa 180  
gctcttcagg tcatcgaaac agagctcgga gtcaacagtc aacgttcttc ggccagtgat 240  
gtcaaccctt gcggtcgccg aggagttttc tgcgagagac ggcactctgc caccaccgga 300  
gaatacgttc tccgtgtcac gaggtcgtc taccgatcca ggagcttgac ggggactatc 360  
tctccggtca tcggaatgtt gtcggagctc aagggaactt actttgtcct aaataaccag 420  
tttggtaaac gctgttcccc gtgggatatc cttaagcctg ttaagcaaac nttgaaagtt 480  
tcctggatnc ttcgggaaaa taagnatttt c 511

<210> 4854

<211> 454

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-F8

<400> 4854

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gtttgaagct ctatccctgg tcatgcatct tgatgctgag aaggaaatga tgtcacagtg 120  
tgttgctctt cttggcaagt ttatttctgt ccgtgagccc aacatcagat atctaggctt 180  
ggaaaatatg acgcggatgc tgatggtcac agatgttcaa gatatcataa agaagcatca 240  
gtctcagata atcacctcct tgaaagacct tgacatcagt attcgtaggc gtgctcttga 300  
tttattatat gggatgtgtg atgtgtcaaa tgcaaaggat atagtcgaag agttgctgca 360  
gtatcttaac acagcagagt tttccaatgc gggaaagaan tatcacttaa agctgcaacc 420  
ntgctgaaaa atttgccttg atcaacaatg gaat 454

<210> 4855  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-G10

<400> 4855

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ctaagtgcag cttttgacgg cgttgaaaat caaatgaacg gtccagattc atctcctcgt 120  
ctctctcaag atcctcgtga gcctcgctca ttattatcat cttcttggtt cccaatcacc 180  
ctcaagttcg ttgatgtgtg ttaccgagtc aagatccatg gcatgagtaa cgattcttgt 240  
aatatcaaga aactattagg attaaaacaa aaaccgtccg atgagacaag atcgacggag 300  
gagaggacga tactaagcgg agtcaccgga atgatatcac ccggcgagtt tatggccgtt 360  
tcttgggacc aatccgggaa attggcaa atctacgctaa ctaaaacgca gtcncaagg 420  
ggagactccc aagggattaa aacctcaacc gggaaaaata cnttataaac cga 473

<210> 4856  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-G11

<400> 4856

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ggtagccttc aatttaggat cggagttcgt aaataaggtg atttagcgaa gatgatggtc 180  
gaagatcttg gtgtggaagc gaaggaagcg gctgtgagag aagtggcgaa gctcttacct 240  
ttacctgaac ttttgcatc tatttcttca atcaaggccg attacatcgc tcgtcaacag 300  
gcaaagtatg cacagctcag tactatgggt gctgagcang ttgaacaagc tcaagctggg 360  
ttagagtcac tttcatcatc tgagaaaacc atttatgaac tgcgggataa ttcatttcat 420  
cgacaagctt 430

<210> 4857  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-G3

<400> 4857

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taccgggtaca tctgtgacac caaggggtgct tttgtccaac ctgcattata tgaagccttt 180  
gggttaactg ttgtggaggc tatgacttgt ggtttaccga ctttcgccac ttgcaaaggt 240  
gggtccanctg agatcattgt gcacggtaaa tcgggtttcc acattgacct ttaccatggt 300  
gatcaggctg ctgatactct tgctgatttc cttaccaag tgtaaggga agatncaact 360  
cactggggaa tgaagatttc aaaaaggang ggcttcaaga agattgangg agaaattaca 420  
cttgggcaaa atccaaatca acaagaaggc ctccntggac aattgaacng ggtgttgtaa 480  
agg 483

<210> 4858  
<211> 512

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-G4  
  
 <400> 4858  
  
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 gagagatata gagagcatca atggcgctcgt cgtcaagact ttgcgattcg tgcaaatega 120  
 cggcagcaac tctattctgc cgcgcagacg cggcgtttct ctgcggcgac tgcgacggta 180  
 agatccacac agctaacaaa ctgcgcatcac gtcacgaacg agtttggtta tgtgaagtat 240  
 gcgaacaagc accagcacac gtcacgtgca aagctgacgc cgctgcgtta tgcgtcacgt 300  
 gcgaccgtga tatccactca gctaatecac tctctcgccg ccacgagcgc gtacanteac 360  
 tcctttctac gaacgctgta ngtccaagca aaatccggct tcntcctccg gtaattttcg 420  
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 gatccganat cnctaaattt gttctccgat tt 512

<210> 4859  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-G6  
  
 <400> 4859  
  
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 tgttgatctg aatctcgcta agaacttctt gaccggagaa atccctaaca gtttatctca 180  
 gattgcttct ttaaactcgt tggatttctc agggaatagg ctaacaggtg aaatcccggc 240  
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 aataccaccg gatcttttag cgggtgggagg atcaaccgcg ttctcacgta acgagaanct 360  
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<210> 4860  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <400> 4860  
  
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 ggtgacggag ggtttagttt ccctaaagga cgggtgatgc cgaagataac gaccggagca 180  
 gcaaagagag gtagcggagt ctgccacgac gatagtggtc cgacggtgaa tgccacaacc 240  
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 aacgccgccg ctgcttttgc cgccgtctcc cgaaggagga acgtcagaaa gattcagctt 360  
 caaatcta atcagtgcac gtttaagcatc cgtttaacna agaagaattc aagggaacca 420  
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<210> 4861  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 ttcttctctc cgcattggcaa gagttcaatg attttggtga agatggtggc cgatcagcta 180  
 aatctttgaa accaaaattc aatgcctttg taaaccatgt gacaactcac actgggccag 240  
 caattgccaa cagtcgatat gaagattcct gttgctgctg ctatancctt gaagggtatt 300  
 gggggacnaa ttggttgncc ttggcaactc aatgggaacc taacccttgc ctctgcaac 360  
 aaacccttgc caaccatt cngtaagaat tccacaacta cgaagttgca aaaaagggan 420  
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<210> 4862  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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<400> 4862  
  
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 gaaattagca atggcggtttt agtctgttta cctgtgaagc ttttgcgtaa acgctggatt 240  
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 gctatctgga gttaaccgga ttagaggaag tgggtgtgga tctcgatctg tgcttgtgct 360  
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<210> 4863  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 cttttactag gctgaggtct cgcgtcggcc aacaatcttc actcagcaat tctgtcagat 240  
 ggattcagat gcagagctct accgacctgg acctgaagtc gcagctgcaa gagttaattc 300  
 cggaacagca ggaccgtctg aagaaactga agtcagaaca tgggaaggtc caactgggaa 360  
 acatcactgt tgatatggtt attggtggaa tgagaaggat gactggattg ctttgggaaa 420  
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 aaaaaagttn t 491

<210> 4864  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <400> 4864

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 gcagaagatg gtaaatttag tgtggagacc catctccact caaacctctt cagttattgc 180  
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 tgaggttggg gcttctttga ttaagttcat tagagggaaa gaagggancg acgcagatga 360  
 aactttgaan aaggaaatgg ggagtgaag ntcaatccnt ccatcaanca aaggaacaaa 420  
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<210> 4865  
 <211> 504  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-D6  
  
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 gggattctta tgcttaccaa aaagctgaag aagaccgtcc gtgaagattt cggcgctttt 180  
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 tttggtcac cagactgggt caggacccat gaagctgctt cgtcaacatc tcctgtgggt 360  
 tcaactctcg ttgaangtgg agccactttg tggtgggaaa actgtagttt gatgaatttg 420  
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504

<210> 4866  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 4866

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tgttgagttt tatggtaatg gcatgagtgg gctgtcccta gctgacaagg gcgacaattg 360  
ccaatatgtc tccccgagtt atgggtgcaa ccatgggcct tcctccctgg tggatnaatg 420  
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<210> 4867  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-D9  
  
<400> 4867

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tctcaaactc cttccagaa aagcgaggga atagtgttgt tgagagggtt gtgatttcct 180  
tttgaaaaaa tgatggcttg tggcttaagc aagagccttg gcttgtcttc ctcttgaag 240  
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tcacttaggc gaactttctc cgccgatttg tcctccaaga cttgggtttc ccaaatggg 360  
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<210> 4868  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-E1  
  
<400> 4868

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<210> 4869  
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<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-019-Q1-E1-E10  
  
<400> 4869

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gttcttaagg ctctttgttc tgaagctggt tgggttggtg aagaagacgg aactacttat 360  
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<210> 4870  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-019-Q1-E1-E11  
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 attcactcaa ggaagatgaa tgtccaccca gacgtcaact ttgaggagct tgcacgatca 240  
 acagatgatt tcaatggagc tcagctgaaa gcagtgtgtg tagaggcagg catgttagct 300  
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 <223> Clone ID: LIB22-019-Q1-E1-E12  
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 acatcacccg cgcaagttat cggataccgt ccatatccac caaaaaccaa cggctccgat 180  
 caaatcttcg acgcttcaaa aaaattcgaa ggctcatcga atctcgctccg cctccgttac 240  
 cacatgggtc cagtcttaac caacaacatc accgttcacc caatctggta cggcacgtgg 300  
 caaaaatccc agaagaaaat catccgttgg ttaatgcttg gtacgcagga cccgaccg 360

taactccggt tgagataacc ggatctttgt gaaggtantt atggaacaag gaggtggtgg 420  
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<210> 4872  
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 <212> DNA  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-E3  
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 gtttggttac cacatctatt tgtggtataa ggttcgaacc gatcctttct gcaccattgt 240  
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 gaagaacatc ttagcggtag aaacactacg aaacacgata atgggagggg cgттаатggc 360  
 aaccacttgc atcctcctct gcgcangtct cgctgcccgt tttaaagcag tacttatagc 420  
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<210> 4873  
 <211> 558  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-E4  
 <400> 4873

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 tgatgcacat atccatacct gagaaggctt acacttctcc aattttggtg ttcttgttcc 240  
 gtaatgattt aaggcgctac cacactgtaa cgtatgtctc cctcgactac aacagcttgt 300

agtgaagatt aangcaaaaa aaattcttgg aagattgggtt catcattntg ctctcaaaaa 360  
 agcctgcaaa aatttctcct taaaaggnta atccaaaatg aattgacctt gggattctta 420  
 attggattga aagaattctc cggccaaaacc gggngggatt gaccttttga aggaaaaancc 480  
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 tgcaaaaanaa actgggttc 558

<210> 4874  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-E5

<400> 4874

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 gaactactac tagtggtttt ttccgtgaag taangagaaa cggtaaactt ttctatttgt 180  
 tttcaagaaa agccaaagaa aaaaagaatt tttaatatac tctgtttttt gcaatgatatt 240  
 tgttttgtga aatttttctc ggagaagaaa gtaatttaga agacgggagag tggcaaaaacg 300  
 aaatataaaa aaaaaagttt tcaatttctt ttaagaaaaa aanagctttt tccctttctta 360  
 aaacccttcc tctgttcaga aacagagaca taagaagaaa gatagatnac aagcctaatt 420  
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 aattgttcna 490

<210> 4875  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-E8

<400> 4875

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cggatcatcc ggttccggaa ccgtcggatc gtcaggctcc ggaacaggcg gatctcgttc 180  
 caccacatct actcagcaga atggtcggat cttaggtcgg ccgatggagg aagtacggag 240  
 aacctatgag ttgggtcgtg agcttggtcg tggccagttt ggtgtcacgt acctcgtaac 300  
 tcacaaagag acgaaacaac aggtcgcttg caagtcaatc cctacgcgcc gcctttgttc 360  
 acaaaagacg aacattgaaa gatgttccgc cgttaaattc aagaattatg caaccaatct 420  
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<210> 4876  
 <211> 508  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-D4  
 <400> 4876

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 ccgatcggga aaccgtatcc aagctccgtg gctagtctgc gctctttgga ctttgaaaac 180  
 ttagcgaact gaaacatcta ngtagctaan ggaaggga tcaaccgaga ccccgtagt 240  
 ancggcgagc gagagcggat ttgggatttt aagaaaaaga aagacgaagc ttcgttccaa 300  
 agtgttcact tctttttcgc cagggttcat tcgatttatt gtggattgga ttgatggnaa 360  
 accancaagn ccctcttctt tcagtcgagt tactcgtanc cttgactgaa ngatcctaaa 420  
 nggcgctgtg aactgtaant gtaaaaaggt tggaagattt tggcnaaaga angggaatan 480  
 ccctgttaga ttccgttctt atggttcc 508

<210> 4877  
 <211> 502  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-B3  
 <400> 4877

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 tctcgatttc gtttttttct cttgtttaat ttaaaattat tgtaaagcac gtggatttgc 180  
 ttgtcttggt tttgttttct ctttcgacct ctttgatgaa atcgaggaac ctacaatttc 240  
 ttcgtcgatc caaatggtag cttagtgggtg gtgataatag gtttctctc ttgattggct 300  
 ccagcttttag gttttttttt tatctttgtt tctgcttcga ttcccaaat ttacctttcg 360  
 attttgagtc taactaagtc naagttgact caagtagagt ccgaaagcct cctgggggta 420  
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<210> 4878  
 <211> 511  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-B5  
 <400> 4878

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 attatcgttt ccgattggat ttggatcgaa tcccatcaat gtggattggt ttgttaccba 180  
 aaaagataca gtattgctgc tcggaagttc gtagtggctt gctcctctc ctcttccgat 240  
 ccacttttgg ttaaggctgc aaaagggcaa gccataagtc gtctccagc ttggatgatg 300  
 aggcaagcag gaaggatat ggctgtttac caaaagctcg ccaagaaaca tccgtccttc 360  
 agangagaga tcagagaaac actgatctaa tagtggaana tctcctttg caanccttgg 420  
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 nttaacctg gaatttcngg tggtccttt t 511

<210> 4879  
 <211> 528  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> . unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-B6

<400> 4879

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ctctgaaaac tgcgtctcta taccagcttt ctctgctctc aantccactt ctccacgcac 180  
cagtggcacc atctcttccc gtcgacgaaa cgctccacg atcagtcact ctctccgccc 240  
tctgggttcgt gnagccnccg tataggcaat cnggacaagt tctgattcgt ccctgggtga 300  
taagtcggtg aacacgatca ggtttctggc antagatgcg gttgagaagg cgaaatcagg 360  
tcatccaagg tcttcctaata ggggctgtgc tcccgatgtc tcacantttg tacgatgaag 420  
tcatganagt ataaccccaa ngaatccctt taagggtttt aaccgtgatt ggtttcgggtt 480  
ctcctctggc tggggacatg ggattgcaat gttgcaataa gcttcggc 528

<210> 4880  
<211> 449  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-B7

<400> 4880

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tgtggtcttt acctcaggta gtgccatcgg ttacggctca gcaatgactt taactgacac 180  
ttcaaataaa gttaagaaag gaaccaaagg agatgtttca gctctgaagc caactataat 240  
gactgcagtt ccagctattc tggatcgtgt ccgagaagga gttcttaaaa aggttgagga 300  
aaagggaggg atggcgaaga cttttttgac tttgcataca agcgccggtt aacanctgtg 360  
gatggnaatt ggggttggtgc ctgggggttg gagaaaatgt atgggatgct cttgtctcaa 420  
gaaatacccc tgtgcttgga ggaacatcc 449

<210> 4881  
<211> 469  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-B8

<400> 4881

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tgaggaagaa cctctgattt tgaatcgaga ctcaagcggt ggtctcgtca tcgttgacgt 180  
tgttaatggc ttctgcacaa ttggctccgg caatatggct ccaacaaagc ataatgaaca 240  
gatatcgaag atgggtggagg aaagtgc aaa gcttgctaga gagttctgtg atcggaaatg 300  
gcggttttgg cgtttattga ctctcatcat ccagatattc cgagagagacc ttaacccct 360  
cattgtatta taaggaactg aaagaatcaa gaacttggtc cctggctccn gaaaatgggc 420  
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<210> 4882

<211> 441

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-C10

<400> 4882

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actcgacctt atcgctgata tcgtcgagat tccactcaac accggaatgt tcaagaagga 180  
ttgcgcagat ctactcgac gagtttgtct cttaacgcat ttgttagagg agattagaga 240  
ctcaactcct atcgattccg ccgcttcgtc gtcgtcggag aatgattggt ggtctgatct 300  
cgtggtcggc cttcaagccg cgaagcgtct tctctccaca gctcgattcc aagctcgcga 360  
ttcctctgat ggtgctgcga agagaatctc atttcagttc caatggtgtt acatggaagc 420  
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<210> 4883

<211> 477

<212> DNA



<213> Arabidopsis thaliana

<223> Clone ID: LIB22-019-Q1-E1-C3

<400> 4883

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atctggccgg agcccgtttt ctctcaggg ctctcagtct tgcattctcg atctccatca 120

ttccccctgac aacgtctatg gatcaccttt gagtgggggtg tcatctcttg cctatgatga 180

agctggagtc aagagtaaga ttcgggaact tgaggtctcg ctgctgagtg gtgatacaaa 240

agttgaagaa ttctcaggtt ttagccccgc tgctgggaag tcgtggaact gggatgaact 300

tttggtcttg actccacagt tggacttgaa agaagtgtg gtgggaggct gctccggcaa 360

ttcgtctgatg gggaattcgc taacaagcgt atgggattcc cttgaatgtc cttggaacaa 420

gatgggtgtt aagtctcaag gcaattccga tcaaacgggt aagggaactt aaaatgg 477

<210> 4884

<211> 457

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-C4

<400> 4884

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ggtaaaggca ggtcaggaca cctctattga gggaaatgat tttgttgagc tgattgaggg 120

cttctccgtc acgttcaacc atgttttaag cggtgataaa agtttgagc attttgtttc 180

gaatcttgct aatgtcttca acgagggcat ggagcgaaag gtaagtttta ggggtctagc 240

ttcctctgag gttgaaactc tgagtccaga ttgcatagac aagggttgcatt taccgagag 300

caagggttga gataaagatt catctcagga aatatatcaa aatgggatgt tgtccaacaa 360

acgaaccaa ggggttcaat gttgatgaaa acaaganttt caaggggtaa tgaatccaga 420

ttcccaaatt tacagggaaa attanaagaa ccggaga 457

<210> 4885

<211> 463

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-C6

<400> 4885

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atcaatctcg ctctcttctt ctttctttgc tctctccac tgttttgttt cttgatcttc 180  
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aattctgagg aggacttgct ggagaatgat cttcttctt ggctgattca gacaactctg 300  
ctctacttct ttcctatac tattcttgac ctcttacca ccaccaagat ngttgcagca 360  
tcatccgatt gctacacatc tgaaggaana gccgtttagg gttgcttatt tggtaagggg 420  
agattcttca agnctaagtc agaacaaaag tanggaggtt gtt 463

<210> 4886  
<211> 501  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-019-Q1-E1-C8

<400> 4886

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aattggtcgg gacttactaa gttgtcggag aaatcgaaga ctaaacgagg taatggctctc 180  
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ggtttgaccg gttctgttct tatggcatct gcctacttcc ttactaaatc accagagaca 360  
agagttctcg ggcgatacca taggtcttgg tgctgcttcc cctctcttct tgtctcggat 420  
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<210> 4887  
<211> 491

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-C9  
 <400> 4887

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aggtacgcaa agagaaagct atctatcata cattgaacat gcttagtctt gatgtgacga  300
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cattacagcg tgccgccgtt gactccaatt ctcaagttgg atnaattttc caagtcctaa  420
gaaccaaaga gtcgccacca acttattttc ccacaaacaa atttacttct gcaatccaag  480
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<210> 4888  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-D11  
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agataacgag caattgtttt ttttcagatt tgatcctgaa tttttacatt tttttttttg  180
caatctcccc ctaatctggt gtttctcgtt tcttcttctg ttaatcatct gtctttcaaa  240
aagaaagaaa aaagaaaaat tcgatttctg gggttggttt tgtcatacag aaaaaaatca  300
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<210> 4889  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-019-Q1-E1-D3

<400> 4889

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tcagaagata ggaaacaaat tctacacgac attgccaatg cccttgaagt aaatgagaaa 180
acaattaaag ctgagaatga tttagatggt gctgcagcac aagaagctgg atatgaanag 240
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gatgatctta attttagaga agactcatca acaatangtg ttcctcctga ttgtttttga 420
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<210> 4890  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 4890

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tagatagaga gagagtgaga gctaacggaa atgggatctc agctacttga gtgttgcttc 180
cgtttcgtct tctactgtca ctcccacagc tccaactgtt ttccttgatt gtttttcttt 240
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gtttcagcac attctttgtg gttcccatct attctctagc cagttcggag tttgcctgaa 360
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gccggnc 427
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<210> 4891  
 <211> 533  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 aaaataattc tcagtttgat tttcttcttc tagctcttaa gtatatTTct ttgttggtat 180  
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<210> 4892  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 atcttctggg agtgtcagat cagttgacag taatttcatg tctatcaagt catatacttc 180  
 ggggtggttta ggggaagccg tatctgaaag tcgtcaaaat acaggaagcc agcaaggtaa 240  
 aacatctaag catgttcctt tagtagcaga gtcgacaaag gtccttatag atttgtttca 300  
 gttgccagga ggcgcagtggt ctcaatctgt cgatacatTT caaccttcaa tagaaccctg 360  
 atttccacc tgtgatcttc aacaagctcc acaagacatt actcaattta ccccggnaaa 420

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<400> 4893

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gttcttgaaa agttcaaata catcggatc gacactcccg gcctcgtcgc cctcctaagg 300  
gtcacacanc gttggaaaaa ctactgtgt caaactggtc catccgtttg tacctgaagt 360  
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ttcgcttccct ttcacagctc acttatgtga tccancgtca cgctccgctc aatcatcgag 180  
tcaagagctt ctgatttct tcanaaccat ggcgttgatg cganntangg aaatcgcagc 240  
cgattcgcat tacatngcga agctaataccg acggttttgt catctctaca acgnaagaa 300  
cctgtagcta taggcatgga agctgcgaat acnacgaaag gacncganta ntactggnta 360

accgtgattn actgtatttc ctaaggtcgt nggtgggttcgc ttcattgaggt ttcccaaaac 420  
ttaa 424

<210> 4895  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-018-Q1-E1-B4  
  
<400> 4895

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gagctatgga ccggtccgat gttcgtccaa aaatcgtggc taactgtttg cagagatccg 180  
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ttgtgggtccc ctgagttcga gcagaaggta gacttaatgc tacgatcagt cggttgattgg 300  
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gcagccgata gatgcccgaa tctacaagtt ccttgccatt agaagcaatc ctaacgtgac 420  
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aanttactgg tcacaagata ccn 503

<210> 4896  
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<212> DNA  
<213> Arabidopsis thaliana  
  
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<400> 4896

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nccatcaca aagggtgattc gtcgncttca 180  
tcatcatcag atgacgacaa cgagaanaag tcttcgtcat cgtctccaaa gtctttgaaa 240  
tcgaangttt atcgtttggt cggaagagag agacctgttc ataaggttct cggcggcgga 300

aaancggcag atatanttac gtnggaagac aaagaaaatg tcaggangtg taatttggcc 360  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 cctcgctgtc actatctcaa cgccggagga aaaacttaaa caaagagtga taggtcgaag 180  
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 agctttgcat gagcctgatt ttcagataaa caaagatgag tcacgataga agtggttaacg 360  
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<210> 4898  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 cctgaccagc tcacacggtg gtactttgtc gggttcttga gctgcggttc tcttgtttca 180  
 atgtttgcct cgccgttggt tgttattaac ctagtgattc ggactaagag cgttgagttt 240  
 atgccgtttt atctctcgct atcgactttc ttgatgagtg cttccttcct tctttacggg 300



gttattcaac agcgaatgcc tttgtttaaa caccaaattgg nataaggaac gaatccntgg 360  
gaattgtgca nctgggcttt gtaactgtta ctaacacaag gaattcnaat agaaagaaga 420  
aacaaaaaga gcctttgaat gggttcctaa cntgtgaagg ttccccccaa aaa 473

<210> 4899  
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<212> DNA  
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gtctttgacc accggaggaa tgggatgtct ttgtcnaatt gtcactggaa ctgttccttt 180  
caatattcct attaancgca caaccgctgt ctcacttccc cgtgcttgta acatgcctag 240  
agtcnctctt caatgccaag ccaatattgc tccagctgct gtcctggac ctgctgctac 300  
atttggaaca tcgatgtctc caaggaccaa gagacgntt caattgttcc aagagccaaa 360  
tccgnaact caaacaccaa cagtctgata caaccccgac caattacaac aacccgttcn 420  
aacnggtggg agtcccaac attcanaacn aacggngggg aancaacaan ttcgaacctt 480  
tctgaanact cccttcaatc ccggcctaac gcaaattctc aaacaatcct ccnttccct 540  
ttccttcaag c 551

<210> 4900  
<211> 562  
<212> DNA  
<213> Arabidopsis thaliana  
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<400> 4900

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aaacgacaag aagaaagaaa cacagttgca ggagagaaag agatatggct gtccggataa 120  
acgcgatggc ggtgacgttt gtggcgacg cgctggcggc aatagcggcg attatggac 180

tggtttggag tatcagttac agaggtggat tggcctgnga agctactaac aagaatctca 240  
tcttcaatct gcacccgtgt ctgatgctca tcggatttat aatcttggga ngagaagcca 300  
tcataagtta caaatcgcnt ccgctggtga aaaccagttg aaagaagttg attcaacctt 360  
atactccaat gccaatgtct ctggctcctt ggggaataat ttggcatcct gttgcaaacc 420  
cttttaaaga aaccaacnaa ttgaaaaagc caattatccc ctnaatcctc ctaacaagtc 480  
ctccaaattc cctgggaatt tgggnaattt ggganntcca ntttccccct tttaaagggg 540  
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<210> 4901  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-018-Q1-E1-C7  
<400> 4901

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cacctaattg tgctagacct ggactacacc cggcagggtta cccgatacct atggttccac 180  
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ttggtgctgt tctcatgct cctcaacctg gaaacatggt tttgganctg gtcgtggaac 300  
tcagttgggg gcaccttccg caacaacaan ccaccaanat aatggttgga cattggccta 360  
attaaacttc ccccttgata tccgaataac caaccttaac tgggtggtccn catcccaacc 420  
tggatatggn accaat 436

<210> 4902  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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cgtcgatccc tccgccggag cttgacaacg actcaactggc gtcacgcgcg agatcggagt 120  
 acgatagtca gccacgcgta cggttcatgt gtacttttgg aggaaggatc ttgccacgtc 180  
 cgccggataa tcagctctgt tacgtcggcg gcgataatcg catggtcgct gttcatcgtc 240  
 acactacttt cgcctctctc cttagtaaac ttgctaaact ctccggtaaa agcaacataa 300  
 gcgtgaagta ccagctacca aacgaagatc ttgacgcgtt gatttccgta tcaacggacg 360  
 aaagatgttg agaacatgat ggacgaatac gaacgcgtcg cacanaatca aaaccangc 420  
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<210> 4903  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 cagtctttct ctcccttcat cctcttgttc tttccgacac cgccggtaat taactctctc 180  
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 tttgtttacc tagatctggg ctgaaatcgt tgaatcttct taattcaagc ttagttcggg 300  
 tcttgatttg tgtgtcattg tgtgttctgt tctgtttcga atctttttga atcggatctt 360  
 gatttttgtg tgtgttccgt tttccttttg gatatacaca agatgaagaa agaagttcct 420  
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<210> 4904  
 <211> 533  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-018-Q1-E1-A4  
 <400> 4904

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ctcttcctct anctcattt ccaccgccga tgacctagac gacctctctc tcttccaccg 240  
cgccgtcgtc tcttctcca ccaacaacaa ccgtcgtctc atctccctct ctccaaatcc 300  
acccccaaag atcgctttcc tcttctaac aaactccgat ttaaccttct aactctctgg 360  
gaaaaggctt ctccaaggnc aacaagatnt ctacaacgtt tacatccacg caagattcaa 420  
ncctcctccg gtctcctcct ccttctcgaa ntcctcaat caaatcaaan ggctaaagtt 480  
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<210> 4905  
<211> 492  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 4905

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acagcttcaa tggcggtgca aatgaaacc taaaagtatc tgagcgaagg ttcaattttg 180  
aagttgtttc ccagaagaaa gctaagaaac ttcgcaaggt aattttgaaa gaggatgtga 240  
cggatttggg taagcaaggg caattacttg atgtgaaagc tggatttttc agaaacttcc 300  
tcttgcttac tggaaaggct cagcttatga ctccattct gctcaaggaa ttnaagatgg 360  
aagacgaaac ggattgaagg aagagaaagc aaaagggtga aaagaaagaa ggcacaacaa 420  
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<210> 4906  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tttcaacaca ctcatgaagt ctgtttacac tgagagatac gaatctcgtc ctttttagggt 180  
cggtagatac aactggacgc ttgttggtgta tccgaaggga aacaagaacg ataacggtac 240  
agggcacatt tcgctatacg tcgtcttaga caactcaact ctcacctctc aaagtgaaga 300  
ggttcatgta gatctcagat tttacgtatt caacaagaaa gagacgaagt actttacgat 360  
ccaagatact gatgtatggc gattcagtgc aatcaaaaga atgtggggat tttctaagggt 420  
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<210> 4907

<211> 438

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-F6

<400> 4907

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atagaggagt atcagtttta gctgttgctg ttggtctgat tttattagat ctagtatttc 360  
ttcttctaac ctccgcgaga gaccagggga taataccacg taatctgtat cctcctgaac 420  
caaanaataa tgaaggca 438

<210> 4908

<211> 438

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-017-Q1-E1-G1

<400> 4908

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gttgacgtaa aggttgatac agtagattct gaatcaaacc gttctattga catggaacat 180  
gattctggaa cagatcatca agaagaagaa gcaaatggga aagaagatcc aacggttgaa 240  
aatctggctg ttgattcttc ttgtttggac attactactc catctccatc tgctgctaca 300  
gagttcatac ctcaggagaa cgaacgttca gacaccgagt ccaaacctct ggagaaaaga 360  
cattcagaca ccgagtccaa caaacgctg gagaaagaca tttagacagc gagtccaaac 420  
ccctggagaa agaacatt 438

<210> 4909

<211> 459

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-G12

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acaaatttat cgacaccgct ttcgctatag acaacactta ctttctcttc tccgcctacc 180  
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atactatgaa catcatgctt accaacgtcc ttgacgctgc agccggtggt ctcttctatt 300  
atctgtttgg ctacgccttt gcctttggat ntccgtccaa tggtttcanc ggtaaact 360  
actttgggtc tcaaaagaca tccccacggg nctctgctga ctactccaac tttctctaac 420  
aatgggcctt tgcaatcgct gcggtggaat cacaagtgg 459

<210> 4910

<211> 411

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-G6

<400> 4910

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ggctttgggt ggggttgggg tgganactcc aacaattcaa nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnccaact attcaagtgg ttcagcttca 240  
acccaaggt caggatgggg tttcggtctc agtcnaaacg gctcaagctg gggttgggg 300  
tngggcngng ttccaacata canacanctc aaggtcnggt tgctccggtt gggcntgggg 360  
ctaaaanaat acagctcggg atctgcgctc gggttcggct gggganatgg a 411

<210> 4911

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-H2

<400> 4911

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ttccacgac gaaccaatca actatagaca ttgcctttgt ctctggaata aaagaagaaa 180  
cgtccaacat ggaaaatcgt ataatgagtc ttacaggttt gccactctct agtctacttg 240  
aagagaaaca tatagcattt aatgctaagt tcaatgaatg cttcaacctt tctgacaagc 300  
ttgatcctga aactttggtg gttggtaaag cagcaatcgg gaacatgctt ggaggcattg 360  
gttacttcta tggatcaatca aagattcaat ttcccaaaag tcctctggct aaaagtgagg 420  
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<210> 4912

<211> 498

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-H3

<400> 4912

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 aatcagaaga ctttccgacc taagaagagt gcaccttctg gaagcaaggg tgcacagctt 180  
 cgaaagcata tagatgccac cctaggaagt gggaacttga gagaagctgt aagacttctt 240  
 ccgggagagg atgcaaatga atggcttgct gtaaactctg tggatttctt taatcagggtg 300  
 aatttgctat atggcaccct taccgagttc tgcacacctg ataactgtcc tacaatgact 360  
 gctgggccaa agtacgagta tagatgggca agatgggtgt acaagattaa agaagcccaa 420  
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<210> 4913  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-H4  
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 atccagcaaa ttcttaggag gaagcttcac tcccaatcac ttgcaactcc ggttttgtct 180  
 tggttttctt cgaagaaagc tcatgaggat gctgggttct ctggtgtaag agcacttgcc 240  
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 gctgaacatg gattggagag tccaaagtac cttgggctca tgatgggaat cctanctcat 360  
 atgancatgc ctcgattcgt cntgggcaac aagtttatca acaaactctgt gcatcatgcc 420  
 aatcaaagtc nccgatttca aaaccgagaa cttgnggggt gtccccct 468

<210> 4914  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-H9



<400> 4914

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cccttcaaca aagaaaatgc tcaaagggtc ctgaacacca aagttgctgg tcacattgct 180

agtgatggga agctcgggtc actcgtagat gaccaaggcc ggttcttcaa gccacttcan 240

ggagattctc gtggcgaaca cgaggctaag ttctatgagt ctttcacatc gaacatgaag 300

gttccagatc acatccatag atacttcccc gtgtatcacg gcactcagct aattgaagca 360

tccgatggat ntggcaaact tcctcaacct ggtcctgatg atgttggttc aaggtagca 420

aanccgtccg taatgggatg ttnaaattgg atttaaggac atnggacccc gatgtntcaa 480

aagaata 487

<210> 4915

<211> 423

<212> DNA

<213> Arabidopsis thaliana

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tacgagtttc tgagtgatg tgggctgact tctcacaact tgggatctta cgttgctggc 180

aatggcaag ccaacggacc tcttgtttca actctcaatc ctgctaacia tcagccaatt 240

gctcaagttg tggaaacttc tcnagaagat acgaacaang nttgaaaagc ttgccaagga 300

acaactaaaa taaggatgca agttangggc cccaagana agtgatatcc tcaagacaaa 360

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aaa 423

<210> 4916

<211> 477

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-018-Q1-E1-A11

<400> 4916

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tgggctcgat tcgtgattcc tcaaagttca tcatccctaa ggcactgtca cttaatggca 180  
tcggaatcga aaagctacgc taggagagat cgtcttcttg agattgaggc cactgttcga 240  
aagtgggtggg aagacgagga tgtattcaga gccgaatctt gtgagaatct tccaaaacca 300  
ggagaaaagt ttttctcaac cttccctttc ccgtatatga atggttatct acacattggg 360  
catgcctttt cattgtccaa ggttgatttt gcttctgctt accataggct aagaggagct 420  
aatgtgcttc ttccatttgg tttccattgt actggtatgc caattaaggc ttctgcn 477

<210> 4917

<211> 513

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-018-Q1-E1-A3

<400> 4917

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ataagctcac tgacgatcag attacagaat acaggaatc tttcaggta ttcgacaaga 120  
atggtgatgg ttccattacg aaaaaggagc tcggtaccat gatgcgttca atcggtgaaa 180  
aaccgacaaa agctgatctt caggacttga tgaacgaagc ggatttagat ggtgatggaa 240  
ccatcgattt ccctgagttc ttgtgcgtaa tggctaagaa tcaangtcac gatcaagcgc 300  
cgcgtcacac taaaaaaca atggcggata anctcactga cgatnagatt acaagagtac 360  
aaggaatctt caaggttant cgacaagaat ggtgatgggg tccaatacga aaaaaggact 420  
cccttacgtt atgttttccc cccggtaaaa aaccggnchna aaacctgttc ttcangacat 480  
gatgaacgaa attggattta aatggtgatg gga 513

<210> 4918

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-017-Q1-E1-F12

<400> 4918

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cccncttcan gcttagccta tcatgagcaa catccctaga tctctcaccg actcagatct 120  
ttctctatctt actctcataa tctcttctgc tgttgatcct tggccttttt ctatcaccgt 180  
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tcttcctcct cgtcgacgtt ttttaaacca atctttgtgt ttcttggttg gtttttcggt 300  
gaaaaagatt ctttcttctt aatgggtttt gaagaaaacc aaaaacagag tccaaaacag 360  
agtccgaatc atatcaagca tatgggtgtc aagttccact tccatgttcc tcatctccac 420  
atactccctc atcatcaaca ccaacaccac catgatgttc ctaaan 466

<210> 4919

<211> 484

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-D2

<400> 4919

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cagaacccat ctcttatctc caatctctcg aaatccagtc aacgcaaate tcccttatcg 180  
gtttctctga agacgcagca gcatccacga gcttatccga tttcgtcgtc gtggggattg 240  
aagaagagtg ggatgacgtt aattggctct gagcttcgtc ctcttaaggt catgtcttct 300  
gtttccacgg cggagaaagc gtcggagatt gtacttcaac ccattagaga aatctccggt 360  
ccttantaag cttcttgggc tccaaagtcc ccatcaaate ggattctgct ctcgctgctc 420  
cgtctgaagg gaaacaactg tantggacaa cttgttgaat aaccgatgac atcaaattac 480  
atgc 484

<210> 4920

<211> 482

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-D5  
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 cgcaggcatt gtctgtctac tcgaggattt caattttggt catnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna 240  
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 gtaccagata atgtcatcac gacgtcagca tcggaagctg gaccggtaga aggagtcttc 360  
 gtcggagctg tatttaacaa gggaagagag tnaacacatc gtaccgatcg gtacgcttcg 420  
 caattcccgg tttaagtcct gttccggttt aagctctggt gggatggcca anagatggaa 480  
 aa 482

<210> 4921  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-D6  
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 tcggtttctc tcggcttctc caggaaagtt ggcggcggca gagcagtggc cgttgcancg 180  
 gctacgggtg acacaaacaa catgccgatg accggagtcg tgttccagcc ttctgaagag 240  
 gtgaagaaaag ccgatctggc cattccaatc acatctcatg cctctctcgc tccgcagang 300  
 tttgccnacg ctacggaagg actcattaat gaacaantca atgtggaata caagtctcca 360  
 atgtgtacaa tcaatgtacg catactttga caagacaacg ntccaatga aggantagcc 420  
 aaattttcaa ngaaaca 482

<210> 4922  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-D7

<400> 4922

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gtggatcttg agaaccattg agcaaacttg gaatttgttt aacaaaaggt tcattgcgct  120
atgggatcaa aacaaagatg gaccaggcga agcatacctt gcagatatct ataacaatac  180
cgaggttttg aagtttgttc aagaaaacta catgaggaat ttgttgcatt actcactcgg  240
attcggcgct gcaaagatga ttaggagaat tgtgggagtg gcacatgttg aggactttga  300
atcaatcgaa gaagataagc gaagagctat ttgcgagaga agtgactcgc agtttgcgaa  360
gatgcttctc aaggaaagga naaagtttaa gaantatccg gtgaaanttg ttcaagcaat  420
tccaacaaca aagctaaaga acaantttta aatggttcnt ccggctgaag ttcttgaaaa  480
gtcctgggtt t                                                              491
  
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<210> 4923  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-D9

<400> 4923

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caagaacaac nnttcctcaa cnatttcaaa attnncgggg ttggtttgaa ggcaactaac  120
ggtcgtccct ctccgtaaac cgtctccaag gatcatcaan cttctcaatt tccgaaagca  180
ttttattcnc taataggtaa aagttatgta attttcgttt acaacaatg ttgaaattgt  240
agaagttgga atttagaaac tgctttttat caattcatta gctttttag tagtagtaac  300
ggtagggattc attagctttt gactcaagat ataaagctta atatatattg cataccaagt  360
gttcgatgat atgcctaaat gaantctgtc cacaaaactc cttgaatttg ngtttaattt  420
caaagaaata tgtaatgctg tgaatocaaa tagtagagtt tcagtcaatt ct              472
  
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<210> 4924  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-E10

<400> 4924

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cggtagctgc agatccgatg cctccgacca ccgttacaag ggacgggtgac tccgttcctc 180
tctacgcaa caaggtcggc ccctttcaca atcccagtga gacgtatcgc tatttcgatc 240
tccccttttg tattccagag ggtgtgaaag ataagaagga agctcttggt gaggttttga 300
atggggatag gcttgtagt gctccataca agcttaactt tagagatgag aaagactcag 360
aggtgtactg taaaaagaag cttaatagag aagaagttga acactttcga aagaactgtt 420
gaaaaagatt aatactttca aatgtataag atgatttgcc taattgggga ttcattggga 480
aagt 484
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<210> 4925  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-E11

<400> 4925

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cgaatccaac tactggatgc cagaagaagc tcgagatcga cgatgaccag aaactacgtg 120
cgttttacga caagagaatc tctcaagaag tcagtggaga tgctttgggc gaggagtcca 180
aaggatacgt tttcaagatc aagggtggtt gcgataagca aggtttccca atgaagcagg 240
gagttttgac tccaggccgt gttcgccitt tgcttcaccg aggaactcct tgcttcagag 300
gacatggaag gagaactggt gagaggagaa gaaagtctgt tcgtggttgc attgtgagcc 360
cctgatctct ctgttctgaa ccttgtcatt gtgaagaaag gtgagaacga tctcctgggg 420
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cttaccgata ctgagaaacc aagaatgaga ggaccaaaga gagcctccaa agattcgtna 480

a 481

<210> 4926

<211> 470

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-E12

<400> 4926

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aanataattn aacncttggt tttttcaaaa gtcatagtcc ttgaacaact tcttaacttg 120

ttcaagcgta acaaacaaaa ccaccgtgaa cgggtgcttg ctcgaaaccg tcgggataaa 180

acctttatac aaagacataa tcccttcgcg tttcaccgtt ttcaaagcac aatcaaccgc 240

tcctttatac ggcggagcaa ctccagccac caccttcata ttcatcactc tcgtcttaat 300

cacatcaaca ggattactcg caacgctcgc aacaaacccc gccgcgaaac tcgccgacac 360

atgagtccca agcccatctt tgaacaaccc tttctccaaa atcgtctctt taacagaatc 420

atacgaagcc aactgcgatg acgtcacaaa gcattgcctg tttatcgtca 470

<210> 4927

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-E4

<400> 4927

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gcctgcttct actcgagttc cttctcagag aattacacct cacagtgttc cttctccaag 120

accaagttca ccaagaggtg cctccccaca agccatctct tcaaagccgc cttctccaag 180

agcagagcca ccaacattgg aactccaag acctccctct ccaagagctg cttctctaag 240

agcagaccca ccaagattgg atgctgcacg acccaccacg cctaggcctc cttctccact 300

agcagacgca ccaagattgg atgctccacg acccactacg cctaagccgc cttctccaag 360

atcagacccg ccaagattgg atgctccaag acccactacg cctaaagccc ctttctccaa 420  
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aacgcttccg gtcaaa 496

<210> 4928  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana  
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<223> Clone ID: LIB22-017-Q1-E1-E5  
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cattcaatcc tgcattttcg tattatgtct actattgtta tgctaacctc tatgtgttaa 180  
ataagcttcg agagtcaaag ggcatgacta ctatcacgct acgaccacat tctggagagg 240  
ctggtgacat tgaccacttg gctgcaactt ttcaaacatg cnatanantc gcacatggat 300  
tcanccngca aattcncgggt gtn cattatg gtaaaccnc caatggtcng gaattcccag 360  
ngcaaaatcc ttgttnnant acacggacct tncgtgtttc aaaaggcnag tttcttgtna 420  
ggagccctta atc 433

<210> 4929  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-017-Q1-E1-E7  
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gtattgggaa tgcgtttttg agctgatctt atacgtctat tcaggttttag ctcagtctag 180  
aattggttgg cttgggaaag gtcgatgaag aacgggatgg ctgagtgcag cgtatgtcgt 240  
tcaaggttgg tttctcccag tagcaaagct atttcaaggg cttatgacaa ctacaactac 300



aagattagag tatectcaaa acaacgagct ctcaatgtct ttttggatc ggtgactgca 360  
 tgctagttgg tctacagccc gtctaagtgt acatgtccaa aagtggatgg aaagttcaaa 420  
 cttaatecta ttaacgtca 439

<210> 4930  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-F1  
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 tttctttgga gatgaaaaga ttcgagagggc caagaacttc gattcactcg cagccaagga 180  
 ccagtaccag ttcaggttaag aaagatcaga agccgcgtag tagtagtagt aaaggatctg 240  
 gtgtgaaacc gttgaatgcy gctcagctgg tttctagagt tttagatgca acaaacaagc 300  
 tctgagccct tccttcaagt cccctgggta actgattcaa actaactggg atnaagaagt 360  
 ccctcctgaa agtcctatga gaaatggtga aatgttgcac tacaatggga tgatgcctaa 420  
 tgagaaatcc aagaactgaa tggcaaanct agtgggttgt gaanaaaaa 469

<210> 4931  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 agaaaaantg ggagaagatg aagagtatgc aaatggggtg tgattgggag cattgtttct 180  
 atcaagttgc atcttctgtc tccattgtca tttgcaacaa agctttgatg accaatcttg 240  
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atgtggcata taaactaaac ttctttgaga ataaaccaat agacatgaga actgttggtc 360  
tctttggcct cctcaatggc atttccattg gtctcctcaa tctcaagcct cggctttaat 420  
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<210> 4932  
<211> 483  
<212> DNA  
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taagttcccc gaagttgcaa gcacagtggc ccatcttctg atggatttcc tgggagatag 180  
caacgtggct tcagctcttg acgtggttgt tttcgttaga gagataatag aaacaaatcc 240  
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tgagagtggc atttcaacta ttacacaatg ccttggcgaa ttaccatttt actccgtttc 420  
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<210> 4933  
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<212> DNA  
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ttcctgtttc tccccggatt gcaaacagaa ctaggggttg ttttcacaaa ttttggatct 240  
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 accgatatgg gatcggagct catcaagtac atctataccc ggaatgtggt ctttaacccg 360  
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<210> 4934  
 <211> 416  
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 agctcgggtgt catcgacact ctctacttat gctgctcgtg atgacgtcac cggatccagt 180  
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<210> 4935  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 ctctaagtta gaatctgtgg ataccagtgc ttagagacca gaggttgtag ctgccgagag 180  
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<210> 4936  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tagccaaact cgacaaatcc gaccaccaa actcagatcg ttcacgtcat gattggactg 360  
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<210> 4937  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-016-Q1-E1-C12  
<400> 4937

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ccatggcaag gattgtctct aatatcccca ttccacgcgg tgggtccgact agtgttgtca 180  
tctatgacat tcacgctttg caggaaaggt ttacttttgc cgatcaggtt cttcctttgt 240

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 tcatagttgc atttcctgat gatggagcct ggaagcggtt ccataagctg ttggatcatt 360  
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<210> 4938  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 atatggaaaa gatctggcat cacactttct acaatgagct tcgtattgct cctgaagaac 300  
 aaccctggtt cctccttaac ccgagggctc ctccttaaac cnaaaagggc caaacaataa 360  
 gaataaagaa tggaactcca aaattcaatg tttttggana acccttttaa antcctcccc 420  
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<210> 4939  
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 <212> DNA  
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 <223> unsure at all n locations  
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 <400> 4939

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 ccgaacgctg tgtgcggatg tcgtgcagaa ggcgaacagt ggacaccccg gggcgcccat 180  
 gggatgtgcc ccgatggccc acgttctctt caccaagtgc atgaagtctg cgccgtccca 240  
 ccctcaactgg ggggaccgtg atcgctttgt tctctctaac ggccacggtt gcgctctgtt 300

gtatgcgctc ctgcacctca ctgggtatga acgacccacg atggacgact tgaagaaatt 360  
cagacagctt tgactcggtc acanctggcc aacctgagcg caaccacggt cttganggta 420  
t 421

<210> 4940  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-016-Q1-E1-C8  
<400> 4940

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ctccgccatt gcttctcgac ttgcgtctga taccacggc cgagtcgagg attgaaacgg 180  
attcgggtca gatctggaga cgaatcaatt aatgaataat taatcttttt tttcttaatt 240  
cagtgttctt gtaggatgca gaccatcttc tatcgggtgct cttttttcat ttgaaccggt 300  
ggcttggtgt ttgtctttgt gtgttgtaaa ctctaagttc cttttctggt tcttctgtaa 360  
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cctaa 425

<210> 4941  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-C9  
<400> 4941

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ccagattgaa ggaggttgga atgaaggtaa aaagggacca agtatatggg ataagttcac 180  
tcatatcgaa gggaagattc ttgatggaag taacggcgat gttgctgtgg atcattacna 240  
tagatacaan gaagatgttg atcttatang acaattagga ttcgggtgctt acagattttc 300  
tatatcttgg tctcgaattt tccctgatgg cctgngaact gaagtcaatg aanaagnatt 360

gctttctaca acgatcttnt taatacacnt cttgaaaaag gtattcagcc gtatgtaact 420

<210> 4942

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-016-Q1-E1-D5

<400> 4942

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gagaatgtct cgtttacgtg atcttagtct caacaactgc aataatctgg tatcactccc 120

ccaactttca gattcccttg attacatata tgcagataat tgtaagtccc tcgagagact 180

ggattgttgc tttacaatc cagagatccg tctctatttc cccaaatgct tcaaactgaa 240

tcaagaagcc agagatctca tcatgcacac ttgtatagat gcgatgtttc caggtacaca 300

agtgcctgcc tgcttcattc atcgagctac ttctggggat tccttgaaaa tcaagttgaa 360

ggagtcgcct cttcctacaa accttgagaa ttaaggcttg tatcatgcnt ggtaaagggt 420

aat 423

<210> 4943

<211> 483

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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gacagatgtt acctatgtag ctgaagccat tataccttta tttgaaaccg caaaagagtt 120

gatcttacgg aaaatgggag acgacttaga ggtgcaagag aagccggcgt tgattctatg 180

ccatgttttc agaagggttg atgaaccttc tcttctgtca gctgcatcta agtttggggt 240

taagcttgca gacagatggg ctgcaaattc aaaggaatct cctattggga acatcattga 300

cagttgggtt tccgaaaagg atttggctgc agaaatcccg agttctgcgt tgcatattct 360

ctattttcag atggagtaac tatgtggtag aggagcaa atgttgattaac tgggagaggt 420

cttttatatt aaaaaatccc tcattgaatc ccaaatacat gaatgtccta catgtattcn 480  
tcc 483

<210> 4944  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-D9

<400> 4944

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ctgaacaact taagacaatt tgtgagatac agccgtctaa agcaatttgc ttttaagggcg 180  
cttgctagca cacttgacga ggcagagatc tctgacctca gagatcaatt tgatgcgatt 240  
gatgtggata aaaatggcgt cattagtctt gaagagatga gacaggcact tgccaaagat 300  
cttccttgga aactgaaaga ctcacgagtt gctgagatcc ttgaagcggg agttatatatt 360  
ttgttttcca ttgcaattgc atctctgggg gtatcagagg gagacgtagt ttcataatga 420  
gccgttgtgt acttgtatcc ttgctggtca cagattgata cancaactga 469

<210> 4945  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-E10

<400> 4945

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tccgaccacc gttacaagga aggagacacc gttcctctct acgccaacaa ggtcgggcca 180  
tttcacaatc cangtgagac gtatcgatat tttgatcttc cctcgggtnt cccacatggg 240  
gtgnaagata agaataagc tcttgccgag gttctaaacg gngatcggct agttagcgct 300  
ccatacaagc tcaanttcag agatgnnata gagtctgagg tatactgcaa cangaagttg 360



agtaaagaan angtcataca gttcagaaaa gctgttgaga aggactacta cttcc 415

<210> 4946  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-E12  
  
<400> 4946

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tatcgccctc aaaacagacc agtgaagaag aagggtatctt ancctttgaa gccaggtggt 180  
caagggtttt tcatctcttg cgatggcgga cgcgaattcc aagctgctca ggaagctatt 240  
aacgtcattg attccttttt cgaggagcta atacaaggga ctgactcgaa agtgaatcct 300  
ggtttgtttg gtaatccaat aaacaaaaaa gttacatttt cgtatagcga ggatgaggat 360  
gangaggaag atgagagtaa taatggcgag gaagaaggaa aacataggan atgggggata 420  
aggcagtagt gagtgaangc ggtaatgac taattgaatg agaaaagaaa 470

<210> 4947  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-B3  
  
<400> 4947

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ggnggcacga cgggtgctcga tcaaggcggt ggctangccg tgattcntgg ttttggtgct 180  
ttctttgccc tnttcacatc ttttttggtg tgggttaaaaa aacgatatgt gggagctcgt 240  
catacatcgg aatgggttcan tacatcngna agatcgtttc gacaggactt attgcaantt 300  
gtcattgtat cacattggac atgggctgng accatactgc aaagtttcaa acgtacatgg 360  
nntatggggg tagtgggacg ttttggtacg ctagtggagc cacatacatg tgctgttgt 419

<210> 4948  
<211> 398  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-015-Q1-E1-F12

<400> 4948

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tgatcgattt cacaaaccct agcttcggcg atcttaaadc tgcaaaaaat ctatggcgctc 180  
ttctcctggg ctttttcttc acaaccagta cgatcagcag cactacgctc cgcttggtat 240  
ctccgctcaa ccctctccgg tgactcagca gcaacaggat gtgtcttcct cttccgcgcg 300  
gactaacttg catcctcaag agaacgctgt cttatccan gccaaactctc aatctacaat 360  
cccccgcttc caatcacaat cccggtacgc acancctc 398

<210> 4949  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-015-Q1-E1-F9

<400> 4949

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ctaggactgt acctcgtatt ggggacagaa gaatcaggaa gatattggct tctagacatt 180  
ggaaaggagg ttcaaggcat tcagatacga aaccgtggag aaattattac ttgcaccagc 240  
agaggagcta tcctatcaag aaaaggaaaa actttgacca catatctgat tccgttactg 300  
atgattaccg tatgcgtact aagatgcata gaggtagtag aaaaggtaa ngggcatcct 360  
ttgtggcaag cgactcccat gtgaaactac nggtnaaatc gttcaaagg gctgaacct 420  
ttcaa 425

<210> 4950  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 gatagcggaa agacagggcc tgactctcat gatcaacatg tgatccgcca tgtttccatt 360  
 gctgataagg tctcgctacg ggacatagct agagagagac ttgacatagt cgctganaaa 420  
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<210> 4951  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-015-Q1-E1-G9  
  
 <400> 4951  
  
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 ggcgtctctg tctagccgga ttggtttgag gagatgtggt agatctctc cgccggagag 240  
 ttcgtcgtcc gttggagaaa ccagcgaaaa cgangaagat gaagacgacg ccgtttcgtc 300  
 atcacaagga agatgggtca attcgtttaa gttcancctt gggaaagaat ccccttccga 360  
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 ta 422

<210> 4952  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-015-Q1-E1-H12

<400> 4952

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gtgttcgagg ttttaaagcc atggattgag ctagggagag tgacgttaca tgatattaga 180  
gatcaagaac gattcgatgg atattatcat aatcagttca tgatagttaa tgattgtttg 240  
cataggtata gattcatgac gaagtggatg ttcttctttg atgttgatga gtttttacat 300  
gttccagtga aagagacgat ttcgtctgtg atggaatctt tggaggaata ttcncagttt 360  
actattgaac agatgcctaa gagtatcnga ttgtttaatc ccgtgatggn 410

<210> 4953  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-016-Q1-E1-A11

<400> 4953

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tctctcagcc attttctctt ctgcacatctg tgttttcgtg cttggagctg tacacgtttc 180  
tttaatttga atagtgattt tgcgttcgtt aattagcctt ctcgtagcag tgggctatct 240  
tgggaatgat ttaggtgggt ttaagttact gggtagtagt cactgctgag cgatttctgt 300  
ttctcctgtt gaatgattga ttcagaaatt tgaaattcac atcgaaacca aatcttaaat 360  
catattggta gctttttttt tgttttgtga ttagatactg tttttttata gtattaa 417

<210> 4954  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-A2

<400> 4954

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gccgaaccca ganaatggtt tcactcattt gacttcactt gctcaatcag agaaggctgt 180  
tcaggagctt cttcttcaac agactcctat gcaggctact gacgaccatc tcgttgagtt 240  
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ggctcaagct gaggctgctg aatggaagcg tagatacgag ttatngaggt ctaataacgt 360  
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ggatggagca ctan 435

<210> 4955  
<211> 423  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-A5

<400> 4955

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tggcaataga tgattttgac acagccacca ttaaaacgat tttagacaag gcttcagagg 180  
ttaaggcctt gctgaaatca ggggagagaa attatctacc ttttaaaggg aagtctatgt 240  
ctatgatctt tgcaaaacct tccatgagga ctcgggtttc gtttgagact ggttttttct 300  
tgctcgggtg ccatgcgtta tatctaggct ccaatgacat tcagatgggt aagcgggagg 360  
gaaactcgtg atgttgctcg tgttcnttca cgctataatg acatcaataa gggtcctgtg 420  
att 423

<210> 4956  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-A6

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aaggaaggga cggacacatc tcagggcaaa ggcgaactag taagcaacat caacgcttgc 180  
actgctgttg gagatgtagt tcgaaccacg ctcggggccac gagggatgga caaactcatt 240  
cacgacgata aaggatccgt caccatttct aacgatggcg ctaccatcat gaagctcctc 300  
gacattgttc atcctgctgc taagatcctc gtcgatatcg ccaaattcca agactccgag 360  
gtgggtgatg ggacaactac agtggttctc ttgcagcaga gtttttgaan gaagcgaagc 420  
catttattga aggatgggtg tcacgctcag aatctaatta gga 463

<210> 4957

<211> 447

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-016-Q1-E1-A7

<400> 4957

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nnnnnnnnnn nnnnnnnnnn ctcctctcgt ccagtattag ggttttaaag gcaagaacta 180  
ctagaacaag agaaggtaca aaaaaaaaaat gtcgggcctc catcgatcat caagttcatc 240  
gaagaacatc ggaaattgcc ttccctccaa agaactcctt gatgatcttg cagtcgattt 300  
gttttgaatg tcctgaaga agatnaacag tcattncaag aagaattttg gtttctgggt 360  
ggaagtaatg cttaantggt aactaangaa ngataatgct ggnaagaat gatncaanag 420  
cttaaagtcc ctgtcctttg aaaanaa 447

<210> 4958

<211> 375

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-A8

<400> 4958

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tttgttttgc ctgagactag aggtttgtca tggatatana tcttcgacta cattcaggtg 180
acctttgcaa aggagatgat gaggatanag gacttgataa tgtgttacac aatgaagaac 240
atatggatat tggcanaatt gangatgttt ctgttgaggt taatactgat ganagtgtag 300
gcatgggtgt tccaactggg gggatttggg tgagtacact gaagggtatg aatcntgaac 360
ctcntaatgg tatgg 375
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<210> 4959  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-B1

<400> 4959

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tcgttgaagc gtgaatctgg aagtaagggt catcatggta atatccaagc ttccaaggct 180
gttgctgata tcattcgtac aacattgggt cctcgttcta tgttgannat gcttcttgat 240
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gctcatcctg canntaaagt caatgattga gtntgagccg ttngcaagaa nntagaantt 360
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tgca 424
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<210> 4960  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-B2

<400> 4960

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accaggaaa caaccattct tccaggcagc agttttcgac atggaagaat ggtattggag 180  
attctaatat caatgtccag actcagcata gccttgaaag tactcagatg aaggagcaag 240  
aaggatcgac tttagaaaat caacatcaac atgatttgaa acgcgcaa at gaacctcatt 300  
tacaacacaa ccagcctcaa gacttcatcg anctgggtcaa ctctggggag atccctcgca 360  
agtccccaat caactggggt taccgattag tgaaaagaat cctactgggt 410

<210> 4961

<211> 469

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-015-Q1-E1-F10

<400> 4961

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nnnnnnnnaa tgaaagggtc gtaaggggaa gaagacagat gattgcgaaa gagcaagacg 180  
aatacaaatt acgccaacaa ggtcttgttt ttcaaattggc ttctcttttc ctctctttcg 240  
attactcctt actcttcttt tggttgcctt tccgcgtttt cttatacgag aatcacgaac 300  
gaaaactcca gattttctag cacacctctt ctctctgcat cgccatcttg ttttttcccc 360  
caaattttcg attttttttt ttgtataact ttgagattc tgatagattc ggtacggagt 420  
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<210> 4962

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-014-Q1-E1-H10

<400> 4962



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 tcgctttctct cctctaaggg cgtttcactc cgtttcatgt cgtctttatc aaccgcagct 180  
 atggcggaat cggngaaatc tcgttctagt tggattaagc aattgnatgc atctctagat 240  
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 tttgaactta taccgtcaga gaanttcact tctctatctg tgatgcaagc cgttggttct 360  
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<210> 4963  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-014-Q1-E1-H2  
  
 <400> 4963

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 tgaatatgac aatgatgctg agcaactctt ggcgagatg gagttcaaag agaacgatac 180  
 tcctgaagaa catgaactga agctgcgtgt gttgcgtatc tattcaaaaa ggcttgatga 240  
 gaggaaacgt agaaaagaat tcataataga aagaaacctg ttgtacccaa atccctttga 300  
 gaangacctg tctcaggagg agaaagtaca atgccgacgt ttggacgttt ttatgcgttt 360  
 cattcanaag angagcacga cgagctactc cgtaatgttg taaaccaata ccgcatgggtg 420  
 aaacggctca aagatntcaa ngaaactcaa ttgcaagggtg tccttcaacg ggtgaaacaa 480  
 ataa 484

<210> 4964  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-014-Q1-E1-H3

<400> 4964

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gtttcttggc gatgggagac gagaagccgg tgattgttat ggccaatcga gaaagagatc 180
gagagcttct gattcccgtc gctgattccg gcgacaaaga cgacggnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngcatcaatc cagccacgag actttaagct 300
tgttcattag gggctgggcg tcaaagaagt tcatgacagg ctgtgttata ctacttccta 360
ttgcaattac ttttctatat aacatgggtg ggttaatcaa ctttgtccat nggattccnt 420
cctcctccaa ataataatgg cacaaacttt gggaatcaaa cn 462

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<210> 4965  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-014-Q1-E1-H4

<400> 4965

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aaaaacccta accaatctcg annaatntgn cgggttcacaa ttccctggcg atgactaccg 180
tccgtccgat cggaaaaact ggatggctgg tcttacgttg gngaaactaa ctctaaacaa 240
gatcgtgtgg ccaggaacgc atgattcagc caccaacgat atcggaatac ctctgatttc 300
tcgtccttta actgaatgcc aatcgctctc tatctacnaa caactcgtcc tcgggacacg 360
tgtcctcgaa atccgtgttc aanaagnttg ccaaactctg caaggggaat ncggacgtca 420
aaagaaattn aagttggcaa ntggagaagt tntcaaattc ctggccggag aatcaatnc 479

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<210> 4966  
 <211> 497  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-014-Q1-E1-H7

<400> 4966

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ccactgtcat attctcttca ggcgacttct cattgacctc tcctaacgac tctctctgtt 120
ctttggccat ggtgttggtt tataatcaag ctctcttgct cgcattcttc gcattgcttg 180
gattccagta ctttccttta ctaccgaag cagggtgtcc attggacttt acttcatcta 240
acttcactct agtggcttcc gtatgctcga acaacaccga gagagctaaa tgctgccgct 300
acatgaatgc tttcgttgca atatctgtcg cccgctatgc aaactacaca gctgatcttg 360
gagttacatc agatttgact gaaatctgta tcactactat ctctagaacc atggagcttt 420
atggaatccc aagaaatgct accatcttct gtggattagg gaccaagatt cttgttaact 480
atgattgtga gggctctg 497

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<210> 4967  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-014-Q1-E1-H8

<400> 4967

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gacaaaagtc tctatacctt cttgtaacgt ggtggttaat taatcatggc cgatcaaadc 120
tccggcgaga agccggccgg agttaataga ttcgctcttc aatgtgctat cgtcgctcc 180
atcgtctcca tcatctttgg ttacgatact ggtgttatga gtggagcgat ggtgtttata 240
gaagaagatt tgaagacaaa cgacgttcaa atagaagttc tactgggaa ttctcaacct 300
tttgtgccct tgtcggattn attgctcgcc gggaagaacg tccggacaat aaaccgggac 360
cgggcgggta caacaaatcc gtccttnggc ctcaataaca attcaagggt tagggccna 420
anaattgaan ggggttgggg gtccggaaat ttaccgggt tccccaaac ccg 473

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<210> 4968  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-014-Q1-E1-H9

<400> 4968

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cttgataacc tttcttcttc ttgaaatgg gttcttctgt ggagcagaac attcttgta 180  
ctgggtggtgc tggctttatc gggacgcata ctggtgttca acttctcaa gatggtttta 240  
aggtttcgat catcgataat ttgataact ctgttatcga agctgttgat agagttaggg 300  
agcttggtgg tctgatctc tccaagaagc tcgacttcaa tctgggtgat ctaagaaaca 360  
aaggggacat tgagaaacta atcctcaagc aanatttga tccgtgaatc aatttgcggg 420  
tcctaaaact gtggttaaga attgttgaac cctccgcgca cttgacataa c 471

<210> 4969  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-015-Q1-E1-A10

<400> 4969

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aatattaaca gttatagctt cgtgacttca agaaatatcc atttcaagat tatttaacct 120  
ttttttgtct agcaagtcac cgtattctac ttgtgtgttg caaatgggaa gttcatgttt 180  
acctccaggg ttccggtttc atcctacgga tgaagaactc atcgaatatt acttgaaaag 240  
aaaagtcgaa ggtctcgaga ttgagcttga agtcattccc gtcacgatac ttatagttt 300  
cgatccttgg gagttaccaa gacaagtcgt ttctcccaa cggggacatg gaatggtact 360  
tcttctgctc aangggacaa aaaatatcct aatgggtttc gtacaaatcg aaggacaaa 420  
aggn 424

<210> 4970  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-015-Q1-E1-B11

<400> 4970

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ctacaaatct ggaatcagcc ggagcgaatc tcgaagctta tgatctcgac ttgctgaaga 120  
ggctgggaat ggctggtaaa gaggagactg atgtatctgc acaagggctc ttaaccaggg 180  
aggccactga gatatggagg agtgagttgg aatctcgccg gtttcaggta gatagtttag 240  
aagctgaact tgtggatgtc aaggcttacc ttgagtttgg ctcagaagaa gatgccagaa 300  
aggagttagg agttctttcg ggtaagggtca gatcgactgc aactatgttg cgttatttga 360  
gatnaaaaag ctanaatcct tgggcaatcc tgatgatcta acaaattgtg catgcngtgt 420  
ggaaa 425

<210> 4971  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-015-Q1-E1-B12

<400> 4971

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tccatcgctc cttctctttc atgcccactc ccttcttctt catccaaaac cctttgggtc 120  
tccaaagcca gaaccttggc tctacccaat atcggtttcc tctcgtcttc ttccaagtct 180  
ctgaggtcgc ttactgccac cgtcgctgga aatggcgcca ctggatcctc ccttgccgct 240  
cgcattggtt cttcgtctgc ggtcaaagcc cctgtttctc tcgattttga gacatctgtc 300  
ttcaaaaang agaaagtttc tcttgctggg tacgaaagag tacattgtga gaaganggaa 360  
aaaacttggt caagcatctc caagatgctt tcaaggggat taancagatt g 411

<210> 4972  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-015-Q1-E1-B9

<400> 4972

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atcagcaatc tttttggcag ttcagcgacc agctgagagt tcagacaccg aatctagcga 120  
atctgtctct caacgactcg atctggagca caaactctgt cttcaaagag cgtcgaaact 180  
tagacatagc cgccaccacc gacaagaaca acaaccagat cgactattat cagaagaaga 240  
caacttccga caacatcaat tccaactgga actggaagtc ttctggttca aacaacgaca 300  
tgggtttagg attcggacct gtgggttcaa aatccaccgt cgatttaaac ccaatcgaca 360  
aattcaactc ancgttcaac gacacgtggg aaattcaact cagtcaacgt taacgttaac 420

<210> 4973

<211> 417

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-015-Q1-E1-D10

<400> 4973

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aaaggacttc aaaagcttcg atggtattgt cagatgtgtc agaaacaatg ccgagacgag 180  
aatggattca agtgtcattg tatgagcgaa tctcaccaga ggcagatgca agtttttggg 240  
cagaatccga ctctgtttgt cgatggttac tctgaagaat tcgagcagac gtttctcgat 300  
ctgatgaggg ggagccaccg tttctctcgt atcgctgccca ctgttgtcta caatgagtat 360  
attaacgata gacatcatgt tcacatgaat tcgacggagt tggcgacttg acggatt 417

<210> 4974

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-015-Q1-E1-D11

<400> 4974

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aaattcgtga ctttccgatt gtgaattccc cgatggatct gcctagcctc gctttaatcg 120  
 ttggcgcggc tgctttcagt cccaatcctg acgagcgcag agctgctgag cagagcctta 180  
 atcagttgca gcacactcca cagcatttga taaggatatt gcaaataatt gttgatggtg 240  
 gctctgatct ttctgtacgc caatctgcta gtatccattt caagaatttc attgctaagc 300  
 actgggaacc tcattctggt gaccaagaac ataatcttgc caagtataa gaatgttgtc 360  
 aggaancaag attcctgtaa tttgtcctca aagtgcctcg anttttgaga gttaanatgg 420  
 ggaaga 426

<210> 4975  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-015-Q1-E1-D9  
 <400> 4975

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 caaatagacg aaaatgcccc tgctcggcgc ggcggatata agcaagacgg tgaagctgga 180  
 gaggtacaat agctacctcc ggaagattca cagcaccaaa gttctcaacg cttcttctaa 240  
 agttcttttc cgagcaacgc ttctcgtagc tcttgtcttc gtcctcatct tcgccatcaa 300  
 ctacctcca ctctccgata gccgcgcgc cgcagcacac canctccaac gtcgtagctt 360  
 cttatccaac gggactcctc tctctcctc cntcttctc tctatcggtg gagccgcgtg 420  
 ggaaaa 426

<210> 4976  
 <211> 507  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-014-Q1-E1-H1  
 <400> 4976

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tccagatgaa gtagcggacg aagttctcgc cttgacagaa atgagtgtga gaaaccatac 120  
cgagaggagg aaactagggtt actttacttg cggaacagga aaccctatcg acgattgttg 180  
gcgatgtgac cccaattggc acaagaaccg taaacgccta gcggattgcg gtatcggatt 240  
tggaagaaac gcgatcgggtg gtcgtgatgg acgattctac gtagtcactg acccaagaga 300  
cgacaatccg gttaacccta gaccggggac tttagctcac gccgtgattc aagaccgacc 360  
actatggatt cgttttcaaa cgtgacaagg tgattcaact aaaacaaaga gcctaacgtt 420  
aacaatttca aaacgatnca aggacctngc gcaaacttca acaatgctaa acggtgggtg 480  
catcaccaat caattttgtg acnaatg 507

<210> 4977  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-H12  
<400> 4977

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ccggtggtct cttctattat ctgtttggct acgcctttgc ctttggatct ccgtccaatg 120  
gtttcatcgg taaacactac ttggtctca aagacatccc cacggcctct gctgactact 180  
ccaactttct ctaccaatgg gcctttgcaa tcgctgcggc tggaatcaca agtggctcga 240  
tcgctgaacg gacacagttc gtggcttacc taatctattc ctctttctta accgggtttg 300  
tttaccgggt cgtctctcac tggttctggt cagttgatgg atgggccagc ccgttccgta 360  
ccgatggaga tttgcttttc aacaccggag cgatagattt cgctgggtcc ggtgttggtc 420  
aaaanggccg aggtat 436

<210> 4978  
<211> 515  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-H3  
<400> 4978



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 tacaacttcg agcagagatg gagcaagcag ggtggtaaag acattctggt taagttgaga 180  
 gatcttagtg atattattat cacccttctt cctgttatgt tccaagagga ccacgatgtg 240  
 tggaatgtcc aattgttttag gtccattgat ggaggagctg ctgctggggt tcccagatcg 300  
 cctgaagctg ctgcggaagc cgggcttgta agtgggaaag ataacatcat tgataggagt 360  
 atccaagatg cttacattca tgcaatcaga cttctaagga ttcacacctac ntnaaaaaca 420  
 antacttccc ttgggaattc cttttgcctt gggcaaccga tgggaattaa ctccctgaag 480  
 gacatcnatg cccctgcaac nttaatccca aaaag 515

<210> 4979  
 <211> 505  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-013-Q1-E1-H4  
  
 <400> 4979

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 ctgcgcctt tgctaaaata gctgccttta tataacttag cgcgcacttt aattctcgaa 180  
 agtcatgttc tttcactttt cttcgctggt tcttcttcgc gctctctctt cttgccatgg 240  
 ttggatttcc cgctaataca gcaaaaaccg ttgaagaaga gctacctttg caagtcgtag 300  
 ccgatcaaga cccaaggta aaaactttca aggactcttt tgatttccct tccatcgatt 360  
 cttttccgga tttcgattct atcacttggc ctgagataaa ccgggaacgt tgaggattta 420  
 anaatagaag ataccggcct tggattcctt tgngttacia catgggggaa acctccagaa 480  
 anagttggta accggtacc angtt 505

<210> 4980  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-H5

<400> 4980

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acgatgcggt tcacaagctt cagctctata tgctcgaaaa taccactgat cagaaccagc 180  
tcttcgcggc gaggaagtta atgtctcgat cagattacga agatgtcgtc actgaacgag 240  
caatcgctaa gctctgtggt tatactcttt gccagagatt tctcccttcc gatgtttcta 300  
gaagagggaa gtatcggatt tcgttgaagg acataagggt tacnatttac aggagacgag 360  
caaanttttg ctgcctggt ggttnaattg atancaaaac ntttccggga attgcaaaaag 420  
gccctanatt ggatt 435

<210> 4981  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-H7

<400> 4981

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aaccctagta gttattatag catccatcgc tttcttcaat cgccgtccat cagagtttca 180  
agggatttgc tttaaagatc aatcctttcc taagaaaata gcgacaattc atcagctttt 240  
cctttcccat ccttcattac cttaacttac tcgagattca tcttcagct gaaattgtga 300  
aacttcgttt ctgggttttt atcagaaaac actctgtgac tattgtgtgg tgatcgagga 360  
aagaaaaaag atggttggtg gtggaacagg agagatgang gatcnatgcc natcaanaaa 420  
acaacttggt ggcngctttg gaaaact 447

<210> 4982  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-014-Q1-E1-A1

<400> 4982

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tcgcacagaa gctgagatca cactgttgga gagtaatat gttgtctata agtttgccca 180  
ggacctgcat ttctttgta ctggagggtga aaatgaaaac gagctcgtct tatcatctgt 240  
tcttcaaggc ttttttgatg ctgttgcggtt acttctgagg aacaatgttg aaaagatgga 300  
agcccttgaa aacttgatc tcactttttt gtgccttgat gagatgggtg atnaagggat 360  
ggtacttgaa acagacgcca atgttattgc ngggaaagtn acaatgcaa acgcaaaaac 420  
aagtgggtca ntcnccgaac aaacattaac tcaag 455

<210> 4983

<211> 534

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-014-Q1-E1-A3

<400> 4983

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ttctacttct gttacacaaa aatacccaat gagtaaagct tcggtgatcc tatacattac 180  
ggtaggaatc ctggtgctct tcctcgtctc ttattcaccg aagaagaagg gtgaccacga 240  
tcaccaccat ggtggtcaca atcaacatca ccgcttaaaa ctccggtctt ctttcaattt 300  
caaaccact cgtcacgatc cagttccgtt tgatcctctt gtcgccgaca tggagcgccg 360  
ccgcnaggga taaggagtg ggaagcgaca agttcatttg aagcattcct caaccccggg 420  
agcttgtcct cctcaattcc tcaagaaaag aaaacaaccc ggggtgggtg gnccattgaa 480  
acatggcaac ctgggtcaac gaaatccgca anccctgaag ttgggaaana aatt 534

<210> 4984

<211> 486

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-014-Q1-E1-A4

<400> 4984

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acagtatctt gatgtggtgg agctgcatct tgtgaaggag atctctgtga ggtctgattc 180  
gttttttgag gctcaaggac agttacagga tttgaatgtg aagattgttg aagggttgta 240  
gtaggattcg tgagttgaaa agagactatt cggtcctgg ataaggaatt tggtagattc 300  
aactcgacaa gattcaaaga actgaactca actaaggatt aatatgcctg ggaacctgca 360  
aacgttaaatt taaagaactt aaattttggt angtttaaac caaagctcct ctcttgga 420  
ctcaaaaatt gccttggttt gcccttcgc aaaanttggt cctgggaacc ttttgggaaa 480  
aaaaac 486

<210> 4985

<211> 487

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-014-Q1-E1-A8

<400> 4985

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ggtaggagg gcattgcccc tcagttctta ctaacctcg gtgtgtaatc aacatgttgc 180  
tagcttcaac tcggttgaat aagaatcatt gattctctct cctgtccatt tcttattcat 240  
tcanggcgct cggccggtgc tcctttctca aancaaacg actctgaacg ttanggaaga 300  
taagaccacc tgagcgaacc gatcaaagg acttgactta tccgaaccga acgatagcag 360  
cttaaaactta aagctaagcc tctcacgagc agcgtcgctg cncnggggag gatcatctca 420  
aagtatgggg caaaggatna agcgctttta ctttgtctcc cgggatcaac acaggttggg 480  
ttgaaaa 487

<210> 4986  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-014-Q1-E1-A9

<400> 4986

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ctgtnaacc anccactca aacganatnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
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gttccacgat cagtttcttt aaaccctang ttttacacaa ncattcngtt tctccagatt 360  
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gagttttata gaagttctag aagattacaa attcttgat ctgtgattct tctgctctct 180  
attcatgtcg ctactcttt ttaccttctt ggtgttgctc ctccaggattt cgaaaaggga 240  
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tattactctc ttcttttttg tcgtcctaag aagattgtgg acagtactga gaatcttggg 360  
gaagttcttc gtggtgaccg aatcgaaaat gtccttaat cgtttaaaat gcgtgaggng 420  
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acgctttctta nttctatctt aagctaagat ggaacatacc ctgtgggncca aacagtgtga  180
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ctttggttat aatccaagca atgttttacc ttggaatcat agtggttaca cgactanctc  360
gtcctaacat aaccaagcta tggtatcncc gctctgaccg caacttaaca acgattcaag  420
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caccatcgaa acaacaaaac gagcttaata atatacanna atccttctca aatctccaat  180
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agcaagcttt agattctaga atctctcgat tcaattctgg taaggcacct gtctgggcga  360
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 gaatcttgaa aggacagacc ttggaccggc gttgaaagct ctgaaggaac ggctcatgac 360  
 caagaatgtg gcanaagana ttgctganaa gctttgcgaa tccantggna actantcctt 420  
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 aagaggcttt actcaaacac caaatctaac ttccgcgagg ttgctattaa aggattctgg 180  
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 aacatgggtg catttgtcac gctcaacaag gttggtgggt tccttcagcg tatggacttg 300  
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gagtttagtc cccacaatg gcgattcgga aggaggaaga aagtagagaa gaacagagca 240  
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aagttganga aaactcttcc ttgtcttctt cntcttctcc aattcgttgt ttttgcaaca 360  
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atctctaagg ctcgaaatcg gtcttgttca acaagaacca gctctcttcg cagcaacgat 240  
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tcgagccgca aatgctcacg gtttcacacg tggtttacct gaaggttaca aaactccagt 360  
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ggcaaaatgc tgctactttc agagttcacc ttgaatgaag atgttggatg gtacttanah 420  
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agagataagg atgatatact tgctgaatac tttgggggtcc ctaacccttc tgggcaatgg 420  
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aacgttcttc aaaccctac caatctctat cactacgatt gggatatcgc aaattctggc 240  
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 <212> DNA  
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<223> unsure at all n locations  
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<400> 5009

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ctctgccaga gatgtcactg ttcgttgaag agcaccagca tcgatgacaa cccaccttca 180  
tatacttcta gtcataatcc taagatttgc acaagatagt ttgagctctg tttcaaataa 240  
agaagctcat caaggatctg acgagaactc ctctggctcg tgtaatgtca gtcaaagctc 300  
tgaagctgac attgtcataa tgaacaaga tgttctcta gcaataatag tggaatcggc 360  
gcaatggtag aaaaggaaac cgagatccga cttcaantga gaaantcgag ttccccccga 420  
gttcaaagat antctggggg atatacaagg a 451

<210> 5010  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 5010

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cctaaaatnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnncac cgtaaactt caatacccat ttgtcatttc ccccaaactc ctccgatttc 180  
ttaaactctaa tttggattta ctttgctgtg aaaaccattc gcattgttac gcatccgatt 240  
ttgcagttcg aaactcgagt tcaacttcaa tttgaggtag atttcgagaa aaagctgaag 300  
aatttcggaa caactaagat ttaacgggtg gaattgggga gtcttgaagc ttatttttcc 360  
tcctgggtct cttttttctt atgtggtggt gcttgagagg gtttttgtat gatataaatg 420  
ctctagatca gagaaaaggn ctaacatgaa gttatcaaat attccgcaac gctatgtaat 480  
aatcctccta actttcctca acaca 505

<210> 5011  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-E7  
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ttggcagaaa ccgcttgaga agatcatggt taagtatctt gatctttgtg ttgacttgaa 120  
 gaggggtcga ttcgctaagg atggattgat tcagtatcgt attgtttgcc agcaagtga 180  
 tgtcanttcc ttggaggaag ttatcaagca ctccctacat cttgctactg acaaagctga 240  
 gcaagctcgg tctcaggcgg atgcccttga ggaggctctt gatgttgatg accttgannc 300  
 tgataggaan cctgagggat ttacagccaa gttattgtcc anttggggaa aanggggaaa 360  
 aagatanggt cngaaccggt tganttgggt ccacccccaa ggggtttaaa gttncnnggt 420  
 gggggaanaa cnttncnngg acaactccct tgaaaatttt tggcnaaann caacctcaaa 480  
 nagtttggga 490

<210> 5012  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-013-Q1-E1-E8  
 <400> 5012

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 atatgttgcg tgcaagcttc atgggtttaaa tgctcagtgg agtgaagaaa agaagcaaag 120  
 ttacatccgc catgccaaca gggaatgtga gatccataaa agtcttgtgc atcaccacat 180  
 tgttcggctt tgggataaat ttcatatcga catgcataca ttctgcaccg ttctggaata 240  
 ttgtagtggg aaagaccttg atgctgtatt aaaggcaaca tctaactctc ctgagaaaga 300  
 agcaaggatt atcattgtgc anatagttca aggccttgta tatctgaaca aaaagtcaca 360  
 gaagataatc cactatgatc tgaagcctgg taatgttctc tttgatgagt ttgggagtag 420  
 caaaagtaac tgattttggt ccaagcaaga t 451

<210> 5013  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-013-Q1-E1-E9  
 <400> 5013

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ctcggctgct ttctcgtttc ttctcctact gttagtgccg aaactagtcc tcagctcaag 180  
gcggagaatt tgattctact gggatgatgct ttatttcatt agagagaaca ccggagagct 240  
attcatatcg acaagcaagc gttgcatcat tacacaagga ttccgaagca aagctccggt 300  
atttcgagga gttcattatc tttatctacc agatcatctg tgaatgcctc aagcatttct 360  
gctattaatg agaacgaggt gagattcaag attgcttcat ctactttgc tctaataaaa 420  
caaaagctgc aattgct 437

<210> 5014  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-F10  
<400> 5014

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gctattggta gggttttata tgagcatcag ttgtttaaag aagctcttgt tagcttcaag 180  
agagcttgtg aattgcaacc gactgatgtg agacctcatt tcaaagctgg gaactgtctt 240  
tacgttttgg ggaaatgcaa agagtcgaaa gatgagtttt tgttggcggt ggaagctgct 300  
gagtcgggcg ggaaccaatg ggcttatttg ctctctcaga tttatgtcaa tctcggtatc 360  
gcgcttgaag gnaaggtaa tggtttgaat tgcttgtgag tattannnan aaactgcaat 420  
ccaagtccta ancattttta a 441

<210> 5015  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-013-Q1-E1-F12  
<400> 5015

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 cacaaaactt ctgtttccct gtttctccgg attctctccg gctctgagct ttcggcttct 180  
 cctctccgga gatgttactc tgcttccctc ttttgtgttc tttttgtttt ctgggtgaat 240  
 attgtatgaa cctttgactg ggatttttcc gaagaagaat cccagacgac gtaatttttc 300  
 tccaagctat ggctgttgaa gagatggaga agaagatcaa aggaagccaa gagacgggag 360  
 ctacataaaa acgacttatc aatcgaagac catctccaag atgcgtgctt gaaattccgg 420  
 taatgagttc agattc 436

<210> 5016  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-013-Q1-E1-F3  
 <400> 5016

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 cgatggagaa tacggacgtc ttcttggggc tgcattgattt cctggagcgg atgcgcaaac 120  
 cctccgcccg cgatttcgtc aaatccatta aaagtttcat tgtttcattc tcgaacaatg 180  
 caccagaccg gaaaaaagat tgtgctatgg ttcaggagtt cttttctaag atggaggctg 240  
 ctttcagggc tcatccactt tggctctggtt gttctgagga ggaattggat agtgctggag 300  
 atggcctgga gaagtatggt atgacaaagc tatttactcg ggtgtttgct tcaaactctg 360  
 angangttat aactgatgag aaactatttc anaagatgtc attgggtcaa caattcaatt 420  
 ctcccgagaa nttgggtata caaccaactt tcaaaa 456

<210> 5017  
 <211> 507  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-013-Q1-E1-F4  
 <400> 5017

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tcatctttct ctctaagaga tttttaggt gacaatcaaa agtttgacaa aatggtgaag 120  
tttacagctg atgagcttcg aaggattatg gactacaaac acaacatccg taatatgtct 180  
gttattgctc atgtcgacca cgggaaatcc actcttactg attctttggt tgctgctgct 240  
ggtatcattg cccaagaggt tgctggtgat gttcgtatga ctgataccag agctgatgag 300  
gctgaacgtg gtatcactat caagtccact ggtatttctc tctactacga agatgactga 360  
tgaatccttg aagaatttca ctgggagcca agaagacgga aacgagtacc tcatcaatcc 420  
tgattcanct gggcacgttg acttttctc cgaagttact gctgctctcc gtatactgat 480  
ggtgctcctg tggtggtcga ctgcant 507

<210> 5018  
<211> 507  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-D7

<400> 5018  
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gtattcaata agtatggttg gggagtagct gcaaagatca cccaactgt tctgctattg 180  
actggtgttg cgttcttctc tctaataattg tttggcgcc cattcgcacc acttggtgcc 240  
aagcttggtg tgacaccgct acttgagct gtgtatgtcc gtgcccttca naatatectc 300  
agcaagaatg ccaagtacaa cttgttcnaa ccttgcaaag aaatnggcta tatccattg 360  
gatgaaggac accaagggtta aangcaaac tgcaatgac gtggtctgca anccattaag 420  
gaaatcaagg gganccttaa tacancagtt caagatcnta ncctttgggt taccaaccaa 480  
atcaaagccc tatcctagga atgntct 507

<210> 5019  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations

<223> Clone ID: LIB22-012-Q1-E1-C3

<400> 5019

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ctcttgcnct acgaatacat gtctcgggga agccttggcg agttacttca cggcgggaaa 180  
tcacatagca tggattggcc aactcggttt gctatcgac tcggtgcagc ggaaggtctc 240  
gcttacttac atcatgattg taaaccaaga atcattcacc gtgacatcaa atcgaataac 300  
attctcatcg atgaagaatt tcgaagccca tgttgggaga attccgggtt aacaaaagtc 360  
atccgacatg ccaactatca aaatccgttc tcaanccgtt tgctggattc taacggttaa 420  
atcgctcccg antttgcatn cacaatgaaa gttac 455

<210> 5020

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-012-Q1-E1-C4

<400> 5020

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tcttggttta agaagattcg ttgngaatn agagagaaaag aaagcatcca tttttctatc 120  
attgcttgct tgctatggaa ttgggtaaat ctcgattcta cttatgttgc aattgcnttt 180  
ctcctggtag attttccgat tattccttaa ctggnagtga ttnaccaaga agccatcccc 240  
aacaatttca attggnatcc taaaccttcc tcctgaagat tcctcgtaat tcccnattcg 300  
atgtttaana acttnaaatt cccctccaaa tcctgaaacg aatttctccc aaaaatctcn 360  
gnttcctcaa aaaaaacaa aaaaacaatg ttgtgtgcat cancctcg 408

<210> 5021

<211> 494

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-012-Q1-E1-C6

<400> 5021

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cggacggaga aggtgatcgt ggtcaaaacc ctagaattat ggagaggac tcagattcta 120  
tcaaagatcc gatctcagag ccttcatggt ttacccccc an gggngcttnt ctttgtgttt 180  
tgtgttgtca acttaatcaa ttatatagat cgaggagcta tagcaagtaa tggatatcaat 240  
gggagtcgtg gttcttgcac ttcgagtggg acatgttttc tggcancgga atacaggag 300  
atttcaactt gagcaatttt gaagatggag ttctgtcatt tgctttcatg gttgggcttc 360  
ttgttgcttc tcctatatatt gcttccttag ctaanagtgt taatccgttt aaacttancg 420  
gagttgggtt gtcaatctgg actctcgtg tgattggctg cngtcnttcn ttgattttt 480  
ggccatcac aatc 494

<210> 5022

<211> 481

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-012-Q1-E1-C8

<400> 5022

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cttattttta aatattcaca tacttcaatt ttcattggtt ttattttttt tatctaaaat 120  
tatataatat ttgatagaaa aaaaangnng attcgtataa catcatcaga gataatcnca 180  
aatacacttc ttcttcttct cgaaatctca gccgttcgtt tgtgtttcat tggctctcaa 240  
tcgaagaaaa cttttagctt acaaaatctg ctttgagtag tattgatttt tcaattcata 300  
tggaatatcc tccattagaa tctgagatca aagaggatat gtctttgaag aatcatcctc 360  
cagacnagga taangacaaa tacactatca tggaacaacc tagtantcca cgtcatcgga 420  
aggttggtgc tagatgggta cctgatgaag cacagangcc aattatcaat gacgctcccc 480  
t 481

<210> 5023

<211> 427

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-C9

<400> 5023

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actgaccgag tcttcccagc ttccaaacca ccaaccgcca ctaatggagc tccaccagtt 120  
ggttccatac cacctcctcc agctccggcg actgtaacca gcaacggaac aacaaacgga 180  
atggctaatac agaaacctca agtctacatt ccagctaacc gtccgggttta cgtccacag 240  
ccttacagtc gccgtcatca ccaccaatct cgaccaagct gccgacgaat ttgctgttgt 300  
tgctgtttct ggtcgattct gataattctg atcttagctc tcatgactgc aatcgccgcc 360  
aacgcgatgt acgtgattta acaacctcgt ccgccgtcgt tctccgtccg tcaataagaa 420  
tcaancg 427

<210> 5024  
<211> 432  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-D1

<400> 5024

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aggaggggtgt tgactttggt gacacttttt ccccaatggc aaagatgact attgtcaaaa 180  
cattgttggt tgttgagca gcaaagaaat ggagtttgca tcagttggat atatcgaatg 240  
cctttttata tggcgacctt gaagaagaaa tttatatgac tcttcctccg ggttacacaa 300  
ctaaagaagg cgagactctt ccaacctaaa tgcagtctgt taagtttcca aaatccccc 360  
aanggttaaa acaagcctca agacanttgt ttcccgnaat ttaataacac ttaaagccaa 420  
taagaatnca aa 432

<210> 5025  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-D11

<400> 5025

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ggcagcaatg gcggcggaag atgaagttgc aaaaattgcg tgagtttgta cggttcagaat 120  
atgatcactc ctgtttacgc tcctgtcgct cccgagcttt atacgagggt ctgaagggtcg 180  
ctgcaacctc cgatttgatg cttgcgtatc tggatttctt ccttggtggg gatgaaaaaa 240  
ggacagacct tccacctcga cttcaccaaa ggtttccaat gcccatattg tttggtggtg 300  
atggcagtta catggctcct ttctcacttc aaaatgacaa cattcttacc agtctgatga 360  
gtcagcttgg ttgcctact acttggtata anactggtgg ctggtgtaaa tgctcaatta 420  
actcttgtnc ncntggcgctc tgagattaac attcaatccg gttctganaa tggggtt 476

<210> 5026  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-D2

<400> 5026

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tcgtgaaaac actcactggc aagactatca ctctcgaggt nggggagcnn tgacaccatc 180  
gacaatgtta aggcaaagat tcaggacaag gaaggcattc ctccggatna gcaaagatta 240  
atattcgccg gtaaacagct agaagatggn cgtaccttgg ccgattacaa cattcagaaa 300  
gaatcaaccc ttcatttggt tntcogttta aaangtngha tngaaatcct tgtcaaagac 360  
tntgaatggn aaaaccatta atttgggang ttnagaactc tgacactatt gacaacgtna 420  
aaagcaaaga ttcaaggcaa ngnaaggatc cctncggggt aagcaanana cttacttttg 480  
ccggttagca acttttaaga cngga 505

<210> 5027  
<211> 483

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-D5

<400> 5027

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ctgccggaaa tttcccgcgc aacgaagacg gtagctttcg tcggaagaag tcgttcggac 120  
aacaagggaa acggagaatg aatcctagga caagtttggc tcagcgtgaa gagatcataa 180  
gaagaactgt ctatgtgtct gatattgacc aacaggtcac tgaggagcag cttgctggtt 240  
tgtttatcgg ctttggacag gttgttgact gtcgtatatg tggatgaccc aactcagtac 300  
ttangtttgc tttcatcgag ttcactgatg aagtgggtgc aaggactgct ctgaatttgt 360  
ctgggacgat gcttggattc catcctgtga aagttatgcc gtctaagaca tctattgcan 420  
cggttaancc aaccttcctg ccaagggact gaagattanc gtgagatgtg tgcaagaact 480  
atc 483

<210> 5028  
<211> 486  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-D9

<400> 5028

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gacaagtgcc gtgtaattcc tcgccctcgg ctactctttt ctcttcttgc ctctcgtctc 120  
cgccgctgat tcagctgccg ccgacaaagg aatatggaag aaaaagatgt gtatacgcaa 180  
gatggaactg ttgatattca caaaaatcct gcaacaagg agaaaaccgg aaattggaaa 240  
gcttgccgct tcattctcgg aaatgagtgc tgtgaaagat tggcctacta tggcatgggc 300  
actaaccttg tgaattatct tgagagccgt ctgaatcaag gcaatgctac ggctgcaaat 360  
aacgtcacga attgggtctgg aacatgttat ataactcctt tgattggagc cnttaaaact 420  
gatgcntacc ttgggaagat attggactaa tgcaactttt gtttcatcaa gtctcggtaa 480  
gactct 486

<210> 5029  
<211> 488  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-E4

<400> 5029

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ttttgagggg gaggattccc ctgaaagaag angggntggg ncggttattg gtgtgaaaga 180  
ctgctcccct cactggaaag actcaaaatg gcgatgctta gaagttcatt gggatgagcc 240  
tgcacgatt tcaagacca ataaggtttc accatgggaa attgaaccgt ttgtnaatc 300  
agaaaacggt cccaaacag ttatgctgaa aaacaaaagg ncccgtaag ttaatgaagt 360  
atctgcactt gatgtnnngca taacagcttn aaacctttgg ngctctgttt tgnccgaaac 420  
ccatgagttt gcacaatcgt gnatcaactc acagtggngt tctcctcaac aatgttatch 480  
tgatgcaa 488

<210> 5030  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-E5

<400> 5030

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ctttcaaact ttctctcacc ttccttctta atattttcat cgtagccacc atcgcagccg 120  
cagcggccgt taacgcgggt accaaagggt nggattctcg gccgtccaaa accaggcgctc 180  
cctggccttt caagaagctc aacaaaccgg tggttttaat gatctcttgc gacggtttcc 240  
ggtttggtta ccaattttaa acggacacac caaacatcga ccttctcata tccggaggaa 300  
ctgaggccaa acacgggtta atcccggtt ttccccacaa tgacattcca aaacaactac 360  
tctatcgcaa acnggactcc naccgggtta acaacgggta taatcatgaa caaagtttaa 420

ccgattccgg gttacgggaa aaagngttca acaaanggnt aacaaccaaa attgggggnt 480  
aaggtaaacc gctgttgg 498

<210> 5031  
<211> 502  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-E7  
  
<400> 5031

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tgcattgacgc tttatgtatt gtcaagagga cccttgagtc caacacggtg gttgcgggtg 120  
gaggtgcagt tgaatcagca ttgtctgtgt anctggagca ccttgctaca accttgggct 180  
ctcgcgaaca attggccatc gctgaatttg ctgatgcgct attgattata ccaaagggtgc 240  
ttgcagtaaa cgctgctaag gatgcaaccg aattggtagc taaactaaga gcgtaccacc 300  
aactgcaca aaccaaggct gataagaagc actattcaag catgggactt gacctcggtta 360  
aacnggaaca tccgcaacaa ttttgggaacc tggattgatn cgaaccaagc tatgaaccaa 420  
anttgaaaat tancantttg caacaagaag ggaanccatt aacnaattcc aacnaanttg 480  
acaacatgat ttaaaaactgg tg 502

<210> 5032  
<211> 479  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-C11  
  
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tgattgtttt tcccactttg catctgtttt gnggatgcc a gctacggatt ttcaaggatc 180  
atttgaagg tcgttgctaa gtttacggcg agaccaagtt gactcatcaa cagtcgtctc 240  
cggaagtagt agccaccacg agccaagcac catggagggt gagctagatt cgtttcaaag 300

acaagtcgct gagaaattca tcgatctcaa cgcttcttca aacgaccttc tctctctcga 360  
 atggatcgga aagcttcttg attctttcct ctgttgtaa gaagagtttc gagctatcgt 420  
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 atgggcacta accttggtga ttatcttgag agccgtctga atcaaggcaa tgctacggct 300  
 gcaaataacg tcacgaaatt ggtccgggaa caatgttata taactccctt tgaattggag 360  
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<210> 5034  
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 <212> DNA  
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 <400> 5034

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 gtcgttggtga atatcttgag gaggttttgt ctaagaccgt tgtgggtcga ggccaaagaa 180  
 gagtgtcgca gcgaacttaa ggactcagt ccatggtttt ggactctggt caatcaagaa 240  
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 gggcaaagtt ggtggtggtt tttatgggaa gtcaggggaat aaaaggggct cacacaaatg 420  
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<210> 5035  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 gngtttccng cngccgtttc caaaaatgnt gctgntccca atggaantgt taagcctttg 480  
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 <212> DNA  
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 aagatgaaga ctctcatgtc ttcatagaaa caagtgatat gtgcgctnnn nnnnnnnnnn 180  
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 ntgaaacttt gggagcatcc ggtaacgntt gggtcngggt caccaccttc cccaaagaat 360  
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<210> 5037  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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<210> 5038  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 5038

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 ggacaagata tcgtactca gtttaaccac accaatggac tctctctgat ttcaagagca 180  
 catcaacttg tcatggaagg ttttaattgg tgccaagaaa agaacgttgt gactgtattt 240

agtgccecaa actattgcta ccgttgtggc aacatggctg cgattctaga gatcgggtgag 300  
aacatggacc aaaatttcct tcagtttgat ccaactccac gtcaagtcga acccgaaacc 360  
actcgcaaga ctccagatta ttttttgtaa gtaccaaag aactaaagct gcaattccac 420  
acactagctc ttcgtctctt ttgcttc 447

<210> 5039  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-012-Q1-E1-A9  
<400> 5039

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aaaaccacca catcaccacc gagaccagcc gtagcgactc ggaggttgag agaatctacg 180  
aagcgtggat ggtggaacac gggaagaaga agatgaatca aaacggtctt ggtgcagaga 240  
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aaaacctcag ttataaactt ggtttaacct gggttgctga tttaaccaat gaggagtacc 360  
gatctaagtt acttggggct aaancgacca aagaaggttt gaaaaccaat gattcggtat 420  
caagccttgt tgggtga 436

<210> 5040  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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ggttggctca gtcccaggtc acaaagagtt ggggtgaagaa agtccagcaa gaatggagca 180  
atttggaggc aaatcttccg aacacgatat atgtgcgtgt gtgtgaagaa aggatggacc 240



ttctgcgtgc agccctgggt ggtgccctg gaacgccata tcacgatggg cttttctttt 300  
 tcgacataat gcttccacct caatatactc atgagccacc aatggtacat tatcattcag 360  
 gtgggatgcg actgaatccg aacctgtatg agtcaggaag aatttgcttg agtctgctga 420  
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<210> 5041  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5041

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 ggtggtggac gtggttcaca gcgaggtggt ttccagcagg gaggaggaca acaccaaggt 240  
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 ccaccacaac agcaacaaca gtatggagga ccacaagaag taaaaaggaa gaggaagaag 360  
 gaggactcct catcaaggga ggtcaagaag gttatgccgt tggcnttga ggttggncct 420  
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<210> 5042  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5042

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gagaaatttg ccatggggct gatccaagac ctctaggaa ccacgtcttc atgactagca 240  
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aaggcgcagt gactgaagtc aaagatcaag gccttttgca ggagttgttg gggccttctc 360  
cactgtggga acaatgggaa ggcttaacaa gaattgtgac tgggagaacc taataacttt 420  
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<210> 5043  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5043

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tgctatacga gacagcggcg gggtttgccc tctttaaagt taaagatgaa ggaaagatgg 180  
ctaacgtcga ggatttgtgt aaagagttcg aactccaga ctcagcacga aagatggtta 240  
agctaaaagc ttttgagaag ttgacaata catctgaagc tctcgaagct gtggctaaat 300  
tgctggaggg agctccaagc aaaggctctgc gcaagttttt gaaagctaata tgtcaagggtg 360  
aaaccttggc tgtggctgat tcaaagcttg ggaatgttat caagggagaa actgaaaatt 420  
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<210> 5044  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5044

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tgggtgttttt gtgaatggta agttttgcaa ggatccaaag caagcaaagg cagaagattt 240  
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 aacagtcaat gtcgatnaag atccaagggt taaacacttg ggaaaaaccc ttggccgcat 360  
 agactaatgc gccaaaatgg caaaaacccg gctcaaaaaa aacctccgtg ncaatgaaga 420  
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<210> 5045  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5045

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 acacggcgaa gaagatttca ccatattttg tctaagtgga ttengttgag agagagagat 180  
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 tcctcatata cttctgctac aaattggtaa cacattctgc aaacttcaag tggacgcctg 420  
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<210> 5046  
 <211> 686  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5046

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tctctcccta aggaccaata aataaactga cgaagtttgg gccccagcat tcaaatactc 180  
 tcccgtcttg ctcccgaaaa tttttttaag cagacttaat actacctaca ctctctctct 240  
 cactctcgta caagtcattg agtgacgctg gtgcgtacta acggtccacg tagagttgcg 300  
 annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntaacggaa 360  
 accgttagtc gtcggacctc cgtcttcttg tcatcgaccg cgctctcggc ccacatcgcg 420  
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 aatccttacc actaacggac cgttccccc aaagcacata cgggcgacga tctacaacgt 540  
 tcccagtaac gtaaactgtt atccccgnta ggcgccgana ngacataccc cataactaag 600  
 aagacttcac catcnactag ncttaaaacg gagccanang gtcaagtcgg acacgnacga 660  
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<210> 5047  
 <211> 635  
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 tcacattcct cggagattca catctccgaa acggtgtcgt tgggctcaca agagagctag 240  
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 gattcggcgn tatcgaatcg atacgaaant ggatcctcan ttcaacgatc ccaatggnaa 540  
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<210> 5048  
 <211> 686  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<210> 5049  
 <211> 684  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 ccttggggna aataataacg gccggactcc cggaactcga ctaaactctc ctaacggtta 180  
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aattgccatt cttcttggca atcaacggaa ctggagtcga caaaggagga ggaggaggag 300  
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aggccaatga cgaacctatt ggagacaaag aagtccacac ggtcagcgcc tccgtctgcc 420  
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ctgatcacgg cgtgtccggc tagccataat accccctgac caacaactcc ggagacttgc 540  
ccaccgaaag caatcacggc gcatatctaa gattccccga aaccggcgcg cgggaccggc 600  
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<210> 5050  
<211> 674  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-K1-G7  
<400> 5050

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gcctctgtcc tcttctctc tgatcctgaa ggccctgacg tcgaagatga tgacgcccta 180  
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acggccatgt cactaaccat cctatcggca aatgcgaaaa cgagaattct gtccccgtcc 600  
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<210> 5051  
<211> 690

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-011-Q1-K1-G8  
 <400> 5051

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aaggactctt gccgtctaata gagggcccct ccttgccggc ccgaaggacc cgaaacacgt  180
cgacctatac gaacgggcca agaccgatgg gaacaaagta attccccgga caatggacta  240
tgtgtaggat taccacaggag acgcgggtca cgcggagcca ttcgacgcag gatacctggc  300
gctataaggg aagagccccg gagtagccga aagcgcgaaa gtaatcagtg aactaacct  360
cttagctctg ggcaaggcgg ccgaagctaa cgaggagtcg attgagcttt tcggaccggc  420
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gtagagaagt cgacggacct agataagctc tcaagcctcg tgaagaagaa gatgttaagt  540
atcgagtccc cctcaccccc cttagtactt cctcttaatc cntattgtaa tatagacggc  600
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 <211> 709  
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 <400> 5052

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aatgccatgg gatcttcaaa tcgcctcaag aacacccaag cagatgataa acaggtaaaa  240
ggtaggtttg atgggaacgg atcacaagca aggacatctg gtgatgataa ggctggtgtt  300
gtaaacggaa aagagacacc tggacatcac gctcctgtct ccaatactga taaccaatct  360
  
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gaaggatcct tcacaagtaa tagaggaaat tggtcagcca tccagaggca gttgttgag 420  
ctagagagac aacaaacaaa tcttatgaac atgctccaag agtttattgg tggctcacat 480  
gacagtatgg tgacccttgg anggcanaagt aaggggntta gaaaggattg ntgaagacat 540  
ggcaagagat ctttcgatat catcangtcg tanggctnat ctcacagctg ggtttggcaa 600  
atataatagt tttgcttact atccactgga agtttaattg tcgaacttca agggaaaaga 660  
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<210> 5053  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-K1-H2  
<400> 5053

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnac 180  
tggcgccaat catggaatct ctggaaattc tttattattg atctaggcgg tcaatccac 240  
taagatataa atcctgaccg acagtgctaa gactcctgac gcgaactttg acacttcatg 300  
cgttcctgtc ggaatcggca ctcttgctgc cgctattgcc ttcaatggcg acaccttggg 360  
gccggtcaat ggaagataag tctgctggcg ggccctggcc aataccccgt tgccctactt 420  
ctagatgaag accaagcaca ctctagctgg aaacgagacc tcgtctattg gagacaacaa 480  
tacgactaac aactctccat tggtgacgag gaactccaat aatgtcccgg cctgcgtcgg 540  
cgctagagac gccaaaggca taattggata tcccatccaa tactacagtc acgattcggg 600  
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<210> 5054  
<211> 659  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 5054

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gaattgaaac agagagtagt tgggtcggaa tagctttcaa cactgtagca tttgtagcat 180  
tgtcttttgt aatgtattct ctgattctcc atggaagaag gttggtccaa tcgcagaaat 240  
gcttgagttt gagtgtttca gtgcaaaatg catttgtttt gtccaattcc ttctcttctg 300  
ctagagctgc tgatgtgagc attagagatg gtcgaaaagg gaagaacttt acagtctctt 360  
acctcgttga ttcatgggtt ttatctaaaa agctcgttg aatccatctc aaggaaagtt 420  
agctttgagg acaagggcaa tctgattct gntctaaagt ctggttaaga agttaccggn 480  
tcacagattc tcagatctct accatcantt ccngattatn ccgntattgc ntggaancag 540  
atgcctaaga aaagcctttt ggtccccaag ccttcaaaaa tctgcaatct aaaangaacc 600  
tttaaacctc ttgagaacct cttganaatg gggtcttcna gtnccccaga aatcttaag 659

<210> 5055

<211> 693

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-K1-H7

<400> 5055

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taccgtattc gagcactcnc ttattggcta gctactcgag aaaattgacg ctccccgggc 180  
tggcacatcc ccgtcagagt ctactatagg aacgagagtc tctgagcccg gtaagctcgc 240  
cagttagaaa ggagtcacgt cagaacgggc gaggaagtca tataaggaaa cgaaagcaga 300  
ggagtcagca gattgagaat cggggataat tcatgacaga acagaagccg gagagacgtc 360  
ataagcggta tcgtctcgta tctagccctc cttagtctat agatttaaaa cgctcgaagc 420  
agcctagacg tccgaaggag acggaccagt cgagagacgg gtcgtcctat acgattacct 480  
ataccctcat tacgttaata cgctccatag gatcaccatt ctcatcgacg gtaataatta 540

aattaaatac tcggccggtc ttctaggacc cgaagacgaa gacgacnact aagtgccaga 600  
 ctacctgtac ggaatcacccg gcttaagcan caaacnccgg atatagaaag aattggcccc 660  
 acactttacg atcctaacc cggccccgaga nga 693

<210> 5056  
 <211> 609  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-011-Q1-K1-G10  
 <400> 5056

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 tgcggagcaa gatggaactg agaaagccac tgttcccaga cgtcactctc taccatctcc 180  
 aggtaatggg aggatcactt ctcactctcc aagaacaacg agactcgcaa actcaggtga 240  
 caaaaccggg aataagaagg agaaacctct tctgtcgtcc cgagaaggaa acgccaagac 300  
 aactccagca gagcgggaaga ggtgattggg tccagcggaa agtgaagcct ttatcgttct 360  
 tgattctata gcagcgacaa taccaaacat gaagaatgca accatcttat ctatttaaaa 420  
 gctagagatt atgagtctgt gattgtgttt tgtgtgttta tgttggccaa gtgttatgtt 480  
 ggcggctaaa tttctacaat tngantgtg tccgagcccc atnaagttca ttacaaggnt 540  
 ttttggatca tcttcttctt ctgggttttc gnnccattact ttgantactt ttgaagatct 600  
 aaacntttt 609

<210> 5057  
 <211> 698  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-011-Q1-K1-A6  
 <400> 5057

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acggcggcga ggcggactcc gactccggaa atcatgaaag gccctcagac actaaaccaa 180  
 taagagataa caatactatc atcgggaaaa ccactagta cgccaccgtc aaagagagga 240  
 aaggagacca cccgggaaag atcgcctagg ccgccttcta cgctatcgac gtaacctaaag 300  
 accggactga gagagccgtg gccaccttcg ccgacggaga agaggacttc gtcgacgccc 360  
 gtgccaccga accaggcgga ataacaggcg acaccgaact tgtgttcccc actgaggtgt 420  
 ccggctaacc tctccattgc gcaggtttag ggaaccctcg ctcggttac gctattctgc 480  
 gttcgcgtcc aacgccgncg gcgaatagaa aatcaaattt gatatagtac ancgctaagg 540  
 ggtcatnagg accgggtccg attttggaca ctccatccgc aggaatttta aagttttccg 600  
 nagacnacgg ggaaaggaaa aatcagtcta nccccgnttc gcnttgtcg agcacactcc 660  
 tatcctctcc acganggctt tnattacccc ggggtgcac 698

<210> 5058  
 <211> 670  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-011-Q1-K1-A7  
 <400> 5058

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 tgctggcccc tcgcctcacc ttaggtcttg gtggtgacct ttattgaaaa ttcttaagcg 180  
 atggcccttc taagtcgttc gtgctgctca ccttggtgga tagttgaaaa ccagcagtga 240  
 acctcatcct tccctactta actctagttg ccaatgctct cgtctaagtc ctttctattg 300  
 tcgacccctt tgtttcccta gaaatcacat cgaaagaggg aagaaacaat ggaaaagaga 360  
 aagtagagaa tactgcgcgg tatgagagcc tgacacgtag acgtgataga taataatcct 420  
 cctaataaaa gggccgcgct gcccggacta tcggctctag cggcctaggg aaaagtatcg 480  
 ccgtccgcgt atcaagcaaa gtaccggccg aaagagtaat ccatccatat atctgatggg 540  
 gataacgctt gcnatggntc caattgcgat tctatcccta aagtagagta ttggattgaa 600  
 ataccagaag aaccggcgag gngtcaancg gccgtcgtnc tggactaccg gacagtagcc 660  
 cgacctcttg 670

<210> 5059  
 <211> 671  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5059

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tcggtggaga tctttttctc ccgtaacaac gctcttctcg caagctcgaa aatgaaaata  180
ctccagagaa ttgcctactt aaacgtcggg atctacccgt tcacatcgat cttectcadc  240
gtatactgtt tcctaccagc gctctccctc ttctctggtc agttcatcgt ccagacgctc  300
aacgtcactt tcctagtcta ccttctcadc atctccatca ctctctgctt actggccctc  360
ctcgagatca aatggtcagg aatctcactc gaggaatggg ggagaaacga acagttttgg  420
ctcattggag gaacaagtgc tcctctcgca gctgtgcttc aagggttgct caaagttgta  480
gcaggagtcg aaatctcttc acgctcacga gtaaattccg aggagatgat atagacgacg  540
agtttgcgga tttgtacatg gtgaaatgga cttcacttat gatcccttcg attaccatca  600
ttatggngaa tctgatancg aatgcggttg gattcaacag gacgatttac aagtgtgggt  660
cctcntggag t                                                                671

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<210> 5060  
 <211> 663  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-011-Q1-K1-B1

<400> 5060

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gttattanag ggctcacgtc atttgcagct tcagaatcca caggattgaa ccttncaggt  180
gataagatag ntggctctggc caaattcttt ctgggtgttg gaattcctgg tgatgccaag  240

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gacttcttca accaaataga tgcactagct tgtttgaag acatcaagtt ttctgttcca 300  
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aaagtttagca ctgtactggg ttccgaaggc accagctctt agtgtgaagc ttacacaagc 420  
tctaagttct aaagtcantg gattcatctg naattaataa ccaggagctt aaagtttgac 480  
gctgacagtg caacgtactt cctggactcc ttcccaaga actttgacat tggaaaatat 540  
acttttgat ttaagattgn gctggatgaa tcagcacatg agaaaatntn cntaactgaa 600  
gctcaaacca aatgcctata gctgccacan gagctattan cattggaaat gcacaaattg 660  
ctg 663

<210> 5061  
<211> 660  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 5061

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cttctactgt atcaagaagc tccgttttgc ttagccatag tgcgtctagg gtttggttgg 120  
tggaagaag gttccgatca tggcgctcgt gtcgctcgct gatcaaggac ctaagacnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
natgttggtg tatagagggt ttaagaaggc gaagaaggag agagggtgta cagctaagga 300  
gcgtattagt aaaatgcctc cgtgcactgc tgggaaaagg agttccatat accggggagt 360  
caccagacat agatggacag gtcgttatga agctcacctt tgggataaga gtacctggaa 420  
ccaaaaccag aacaagaagg gaaaacaagt ttatctagga gcatatgatg atgaagaggc 480  
tgctgctaga gcttacgacc ttgctgcctt aaaatattgg ggtcctggga cacttataaa 540  
tttttccgtg actgattatc canggattta gaagaaatgc caaatctctc anggaagaat 600  
ccttgctctt tactagaaaa gcacggttct ctagggatag cgaaattcgt ggactnaagc 660

<210> 5062  
<211> 623  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-K1-B3

<400> 5062

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atggaatccg aaggagaaac cgcgggaaag ccgatgaaga acattgttcc gcagacttgc 180  
cagatctgta gtgacaatgt tggcaagact gttgatggag atcgttttgt ggcttgtgat 240  
atgtgttcat tcccagtttg tgggccttgc tacgagtatg agaggaaaga tgggaatcaa 300  
tcttgtcctc agtgcaaaac cagatacaag aggctcaaag gtagtcctgc tattcctggc 360  
gataaagacg aggatggctt agctgatgaa ggtactgttg agttcaacta ccctcagaag 420  
gagaaaatth cagagcggat gcttggttgg catcttactc gtgggaaggg agaggaaatg 480  
ggggaacccc agtatgataa agaggtctnt cacaatcacc ttctctgtct nacgagcaga 540  
cnagatctth angagagttt tctgctggct acctgaacgc ctttntggat cttctactat 600  
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<210> 5063

<211> 659

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-K1-B4

<400> 5063

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taataataaa tatagcggac gctctcctgg cgctagactc ccccgaaact acacgtctgg 180  
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ggccatctca tgggtctataa tcccgagat cgccctagtc caacgagtcc aagtcataa 300  
ccttctagaa agtcaggta cattatcacc atacatttgc cccacccgg cgtgaagact 360  
agaccgtccc gtacaacctt aagcccaaag acggagacga cgcattcttc ccagcgaccg 420

gacccagttg tcttctaagg acgcggttaag gatcatatcc gcgcccgtat ccgaccactc 480  
 ccctaagata ataaanaaga agctagttga tgacacttgc agatgacccc catccgatcg 540  
 nagaangtta agtcgaaccg agaaaaaaga acntagggaaa cgtatccnca gagcactgcg 600  
 ggaaacgtan ggaagctacg aatcggaat ccncggcgg aaatatccca agtttcggc 659

<210> 5064  
 <211> 693  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-011-Q1-K1-B5

<400> 5064

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 taaccaactc ttgccaatat taataacaac gacgaccttc caccaatcat gagttagacc 180  
 cgttacggag tctatgatta agatctacgt taagtctctc cgcttgaacc tatgatgccg 240  
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 atccggtcga gtagcgcgtc cataaatcat acgatacgcc cagaaagcac cagcgacgct 540  
 cntgctaate tcaagtaaac agctaagtta taatcctgag gatccggccc tcagggtaag 600  
 gancggtctc agttactccc gntcntgntc cggtcggtaa aagatgactc caaaaacgga 660  
 tacccttaac tgncccttgc tgcgggtccat cgn 693

<210> 5065  
 <211> 632  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-011-Q1-K1-B6

<400> 5065

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 gnagttcnga ataagtcctat tcaattgagt gtcactataa ggaagaagta ggagtagctg 180  
 caactcctgt cccttaatta ctccctctag agaaagaccc tcttgacttg gataacaaac 240  
 tccttcccgg agaaactaag ccgaattgcg cctagccctt ccgcacgagg aaaactggca 300  
 aaggcgacgc agtcatcgcc aatgaagtcc cttctaagaa ctccgaagtc actaccgact 360  
 taagaattct accctaagtc ctgcggaagaa cggtcgcgag gagcagaaaa tagacagcgc 420  
 ctataggata ctttctagga ggcgtaatcg taactccagt aatagcccg caccgggaga 480  
 aacatcctac atgtaactta aacgcccatt ccgattctgc cgcgcgatac cggatcctcc 540  
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<210> 5066  
 <211> 694  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-011-Q1-K1-A3  
 <400> 5066

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 agttccttac cntacaaac tcagagagag actgagagat attcgttacg caatttatta 180  
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 caacttgctg tcaatgggta gctgatggtc ccaaaaacct ggtggaaaag ggtgctgttg 360  
 cagtggagga ttcaaagaat ctgtttacgg tcaaacaccg aacttaagaa tgttgcaaag 420  
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 ggtaattgga acagtaattc acatgatctc cagctttgct ttggggtgaa ggattttctg 540  
 ttgattgctc cacaaagtgc cagtgggggtg cttcttgata caccagagtc tagcaagctt 600  
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694

<210> 5067  
<211> 612  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-E1-G3  
  
<400> 5067

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caatcttcgt atcatccgat aacatgaatt tcacattcaa atccttnaca atccgtaacc 180  
tcacattccn cggagattca catctccgaa acggtgtcgt tgggctcaca aganagctag 240  
gtgttcccga tacaagctcc ggtacagtaa tctacaacaa tccgatccgt ttctacnadc 300  
cggattcaaa caccacgggg tctttctcca ctcaattctc cttcancgtt canaacttan 360  
agccagatnc aacctccgcc ggtgacngac tcgcttttct cctctctcan gacancnata 420  
ctttaggaag tcncggtggt tacttaggct cgtcaattct ctaagccgat tgaagaatcg 480  
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attggtttan anttignaatt tgaccattct nacttanntc tttgcttntc taaattgatc 600  
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<210> 5068  
<211> 630  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 5068

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tcaatgtatt gctggataat gtcaggagca ttgagcgtgc agttgagttt gcattccggg 300  
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anaaggtgaa ggaacccaag gttgatantg agctcatcta tgcataatgca aatattgatc 540  
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gtgatcatcc gtatgacgaa gctctctatn 630

<210> 5069  
<211> 691  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-E1-G8  
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acgagggttt tcttccgtgg ttttgaanga tttgaaatat gctgattcac atgaatgggt 180  
gaanattgac gggaataaag caacctttgg tataacggat cacgcgcatg accatttagg 240  
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ggttgaagtc aatgatgagc tgaccgantc ccctggattg gtgaactcta gcccgatatga 420  
acaaggatgg atcataaaag ttganctgag tgatgcangc gangcagaga anctgatgga 480  
ttcagacaag tactccaagt tctgccaana ataanacgcc aagcactgaa ctttttctat 540  
tttttccaac atctttctcc aancttccaa ncncaacaca anattgtttg ttttcccaaa 600  
tccaaggatt aaaaaccaag atttctctca tcctttgtcc ccttggactg aaaattccca 660  
acctctccgt tcttcccttt ttttctttt a 691

<210> 5070  
<211> 664  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-E1-H12

<400> 5070

aagaaagcac ctgtcttaag tgataaagat tttaatcctg agtttttcca aagactagaa 60  
agaaggcaat ccgtggaagt agtagttcct cgtagatgta aaaacaatga tgaggaagaa 120  
tcaggactcg atgatctcaa tgccatggga tcttcaaate gcctcaagaa cacccaagca 180  
gatgataaac aggtaaaagg tangtttgat gggaacggat cacaagcaat gacatctggt 240  
gatgataagg ctggtgttgt aaacggaaaa gagacacctg gacatcacgc tcctgtctcc 300  
aatactgata accaatctga aggatccttc acaagtaata gaggaaattg gtcagccatc 360  
cagangcagt tggtgcagct aganagacaa caaacaatc ttatgaacat gctccaagan 420  
ttnattgggt ggctcacatg acagtatggt gaccttggag ggcaaagtaa ggggtttaag 480  
aaaggattgt tgaagacatg gcaagagatc tttcgatatc atcaggtcgt agggctaate 540  
tcacagctgg gtttgcaaaa tataatagtt ttgctaacta tcnaactgga aagtataatg 600  
gtcaactcca agggaaagan gtcacaanc agatggacct atgangggga aaattttgga 660  
attc 664

<210> 5071

<211> 698

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-E1-H4

<400> 5071

ggaattttcg ccgggncgta ggggccanac tcncgggnen acccacgcgt ccgcggganc 60  
gtgggatcag cttcaagctt aagagagctt cgagtagcga aagcgacgat ttcttctcca 120  
tcgtgagagc aaatctccag agccgttttc tcttcttctt ctctctctc gcgccgtctc 180  
tgaaactcca tcatcgatc aatcaaattg ctctctctc caanttgaan aacaatggaa 240  
ttggattcgg anaacaantt gttgaagacg ggtttggtta tagtggcgac acttggtata 300  
gccaaactca tcttctcttt ctctacttct gattctaaga anaagcgtct tctctctact 360

cttaaagctt ggcctcnatt ggttggaagt cttatcaa at tcttgaaang acctattatt 420  
atgcttagga gaggaatacc ctaagcttgg aagtgtgttt actgttaatc ttgttcacaa 480  
aaagattact tttcgtattg gtccctgaagt ctctgtcat tttttcaaaa gcttctgaat 540  
ctgatcttag tcagcaggaa ntgtatcaag ttcaatgtcc ctaanttttg gtccttgga 600  
nttgttttcg angtttgaan taatccggtt cgtcangga caatttcggt tcntcactga 660  
aggcacttan agttaacnag ttgaaagggg taagttga 698

<210> 5072  
<211> 636  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-E1-H5

<400> 5072  
ctctctctct ctctttcctc catctctctg tgttcttctt acagacaccg agnggggacg 60  
atcctgatct gtcgnctcct ttgatccacc atcaatcctc cgatcaacct gaagttgtta 120  
tctctatcgc cgacgacgac gacgacgagt caggactcaa tcttcttcca gccgttggtg 180  
accctcgtgt ttcacgaggt tttgagtttg accatcttaa tccttatggc tttctcagcg 240  
agtcagagcc tccggttctc ggtccgacga cgggtggatcc attccggaac aatacacctg 300  
gagttagcgg attgtacgaa gcgattaagc tcgtgatttg tcttccgatt gctctgatta 360  
gacttggtct ctttgctgct agcttagctg ttgggttactt ggctacaaaa ttggcacttg 420  
ctggctggaa agataaagag aaccttatgc ctctttggag atgcagaatc atgtggatta 480  
ctcggatctg taccaaagt atcctctctt cttttggcta tcaatggata anaaggaaag 540  
ggaaacctgc tcgganaaaa gattgctccc gaatggtgta tcaaatacang tttcctaaaa 600  
ttgaaccaat cctccnactt ccaangaatt atcaac 636

<210> 5073  
<211> 642  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-K1-A1

<400> 5073

ttgggctgnt tatgtgcttg taagggtagc cccctccga caccttccct aatcccttcg 60  
acacgcgatc ttcgtggcaa agaaaactct aaaaagagaa aagacccatc cgagcgccaa 120  
cgtcggcatc ggaatagaag cctctcgtaa aggacgtagc tactaatcaa aggagaaacc 180  
gtggagcgta gggaagccga ggcccgtaga cgaagtagac gcccgaagc ggctgaatat 240  
cgatcccagt cccctccaca tggttcttct aagcaacaca gccggcgat ccccttctta 300  
actcgtgttc gcctatgacg ccgactagag ggatacacc ctccctcact ccccttagg 360  
aaagtagtaa aaaatcaagg tacctaagtg ggaggcagca cccgccgccg atacaagcaa 420  
aagcacgatc ggaaaattct ctgaggacgc aaaaaacgtg acactcatag tctcactcaa 480  
gtccgacttc ggagacctcc ctaacaccac tatccctagt aacgacatcg tctcacccct 540  
gatactaacg gagctagcta tctcgcagt cgccgaaaga ggtaccgagc ggacgaataa 600  
gaatcccgt gctgtaaacg gctaaatacg tctttccttt cc 642

<210> 5074

<211> 670

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-K1-A10

<400> 5074

cgtgtaagt tagcgtatt gtcctgatg atgatcagat atcatcactg gagaaggctt 60  
tgtctgagt ggatcacgag gactccactc gggtacttgt tatcattcaa ggattgaggy 120  
atcaatatgt gccctaccaa agaaggcgtg tgggtcaagt tgatgatgat cgagttaagt 180  
ttgagattag caccgtctta actcgcaagg gaattgaaat gcaaatggct tcaggagttg 240  
acaagccaga ggaagtcaag tttgcagtac ctcttgatg ggatatgaac ataaacaaaa 300  
tggtggttg ctgcccttg aagcatcagc agaagattta tcttcaggta gtatacccg 360  
ttcttcggaa atatgaagca gcaccgtcag cacctcgttt gaaattagta tcatattatg 420  
atttaaaatc gctattctct gntgaggatg ttaaactttc tccatggatg gacgggatgt 480  
gcttggtga atatcttccc atcttgaaga aacacttgag agacagatcc atgaanctgg 540  
tgctgcaatt gatttaaagg aggagtttta ttgaggcatt aaagtcttaa tctgggaaga 600

cctcttgaac cgatcctacc ttttgnegta nggntacatt ccttaatgcc ttggacaatt 660  
tactttcatg 670

<210> 5075  
<211> 667  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-K1-A11  
  
<400> 5075

cccattggct tгнаaccttt gggctanccn cgcntccgca atggaggaag ctcaccagct 60  
ggagtcgaga tccgatgacc taagtcaacg gagaagctac tggagatgga ggaagcagga 120  
ttttttcccg gaattctctt ttcagagctt ctctacctac aaatcagctc tctccgccac 180  
ttgtccaacg ctcgccgac gtcttctctc tcgtcttcc gatgcgtacg agctcgatgc 240  
agcccgccgc gaaagcgaga accctatgcg tcgttgtctc acttggtggg acttgctctg 300  
gcttagcttt ggttctgttg ttggttcggg tgtgttcgtg atcacgggtc angaggctcg 360  
agttggagct ggtcctgctg ttgttctctc ctacgctatc tctggtgtct ctgcattgct 420  
ctcagttctc tgttatgctg agtttggagt tgagattcct gtcgctggag gntctttctc 480  
ttatcttang gttgaattgg gggattttat tgcctttatt gctgctggga atattcttct 540  
tgaggctatg gttggngct gctggattan ggaggnatg ggcttcgtat ctactngntt 600  
ggcnagaan gattctgata ttttcggata aaagtcnatt nctttgntta agggttngaa 660  
cttttgg 667

<210> 5076  
<211> 633  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-E1-C8  
  
<400> 5076

gggaaagagg aggagaaagc ggcgcagagc gtggcggtga ccgtggtgac ttcgggcggg 60  
gnttcagcgg tgnacntggn ggttnccgtg gccgtnatcg tggccaaga tgccgtggaa 120

tacgtggatg ccgtgcctcg gaagaaacga aatgggttcc agtgaccaa ctatgtctc 180  
tagtggctga caataanata tcgaanctag agcagatcta tcttcattct ctcccantan 240  
acgagtacca aatcatacat catcttggtg gtcctacgtt ganangacga cgttatgaan 300  
atcatgcctg ttcanaaaca naccatagct ggtcaaata ctagattcaa tgcctttggt 360  
gttggttggtg atggaaatgg tcatgttggt ttgggtntca agtggttctaa ggaatttgct 420  
antgccatta nacgagctat taatcctgct aagctatcan tgggtcccggt gangataggt 480  
tattgnggga ataagattgg gaanccacac actgtgcctt gtaaaggtag tggggaaatg 540  
ttgggtctgtt actgttagaa tggctcctgcc ccgataggtc tgggtattgtt ccgcaanggt 600  
cctaaagaag gtctcaatcc ccgnaatga tta 633

<210> 5077  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-010-Q1-E1-G4  
<400> 5077

aagccttngg aancnnaaca agaaactnnc tngggcngcn gnaaaacatg gtggagtagt 60  
atacattctg gaacttttat tgcctttgca aaaagaaatt cccttgacgc aaagagctgc 120  
agcggcttct ttgttgggga agctcgtcgc acaaccaatg catgggccta gagttgctat 180  
cacacttggt agattccttc ctgacggtct tgtatctata attcgtgatg gacctgggga 240  
ggctgttgtc catgcacttg agcggaccac tgagactcca gaacttggtg ggacaccagc 300  
aatggcagca tctttatccg cacagattgc aacctggga tcagatattt atcgtgaaca 360  
acagaagggt tctgttattg aatgggatgt accagaacaa tcantggtca acaagaaatg 420  
anagacaa 428

<210> 5078  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-010-Q1-E1-G7

<400> 5078

caaaatcttc cctcaaactc agatccgatt cttctaattc tttgtccccc cagagattct 60  
tcttctttct ccaagtaaaa gaaaacaact ttctttctct tttcttgcca aagtcctcaa 120  
ctttcaccac taaatcagct tccttcaatc actgtgtttg ctttggaccc agtttctgat 180  
ttagcgacta gggttttgat tggaaccgta ttaagtatat gagaatcggg ttttactggg 240  
gaatcggatt atcatcggaa ttcggaaaaa gatggatcgg aatcaaaaaga tggatcacgt 300  
tatcggcggg gaagttaaag ttgggtagga agcttggaag tggatcattc ggtgaacttt 360  
atthagggat caatattcaa actggagaag aagtcgcagt taagctggaa cctgtgaaga 420  
cgangcatcc tcaactgcag tat 443

<210> 5079

<211> 498

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-010-Q1-E1-H10

<400> 5079

gtacgccccg anacggtcac gagantcncg ggtcgaccca agcgtccgaa ggacgcgtgg 60  
gcggacgcgt gggccgctta taaactttct ctcttctgaa aacagatctc tctactttgc 120  
ttcttcactc gacttgtatc tatcatccat ggcttccgag aatcntttcc gaagcatatt 180  
gaaggcgcta gagaancctg atggtggtga attcggtaac tactacagct tacctgcttt 240  
gaangatccc aggatnnata aactacctta ttccattagg atagttcttg aatctgccat 300  
acgtaactgt gatgagttcc aagttaagan canagatggt gagaagattc ttgattggga 360  
gaatacttct cccaagcagg ttgagattcc gttcaancct gctcgggttc ttcttcagga 420  
ctttacnggn gttcncgncg ttgttgatct tgcttgcatg aaaaatgcc a tgagaaaatc 480  
ccggtgggaa tccaanaa 498

<210> 5080

<211> 454

<212> DNA

<213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB22-010-Q1-E1-H12

<400> 5080

gaangacgcg tgggttcgct atcatcagat ggagattctc gtggaccttt agaagccaat 60  
ggtgttctta aggggaaaga tcagaaacct cttggatcta ttcacgttcc ttctcctaata 120  
ttcgatatgg tttactctgt gttatctcaa cgaggctatt acctgactc acctgataag 180  
gagaatcaag acacttactg catcaaaaca gagcttcaag gtaacccgaa tgttcatttc 240  
ttcgggtgtct ttgatgggtca cgggtgtgttg ggtacgcant gttcgaattt tgttaaggag 300  
aaggttgttg aaatgttgct cgaaagaacc aactccgcct naagattcgg agaaagctta 360  
aaagtccgcc tttttgaagg ttaatgaana attacaccat antgaaatcn acnattccat 420  
gaatggnact actggcaata cggtcctgtt gttg 454

<210> 5081  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-010-Q1-E1-H2

<400> 5081

cgnccgagaa aaagagggtt gctgtttctg tacaacggta caggacatg ggttccgcag 60  
agaaaatgaa cccctttgca gagcaagaag cttgggagga ccatcagatt gaaaacgcag 120  
cattaaaatt tgggtgcaaag aataaggagg tctcagacaa ttacgagttt gtatttgaag 180  
accaaataga cttcataaag gcatctgtgt tggctggtga taattatgaa gatgaaatgc 240  
atgctaaacc atctcaagat tctgctggga aatcggcttt tcatatgctt caggaggata 300  
gaaaagctct gccaatat acatatcgtg atcaacttct taatgctgtg aaagatcatc 360  
aggttcttat cattgtgggg gaacgggttc tggcaagact acacagatac cccaatatct 420  
tcacgaagct ggttacacaa agcttggaag nggt 454

<210> 5082  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-010-Q1-E1-H5

<400> 5082

taaangaggt ttcttcttan agaaatgaat ttctcttatt ctctcttgtc aacttggaca 60  
accctaata ga cattgggttg tcttctgctt cattcatcca tttccagtgc tcagctaacc 120  
ccanctttct atgacaatac atgtcnaagc gtctttanct tcgtacggga naccatagta 180  
aacgagctaa gatcggatcc tcgtatcgtc gcaagcatcn ttctgtcttca cttccacgac 240  
tgtttcgtca atggctgtga tgcacnctc ctgttagaca acacaacatc ctttcgaaca 300  
gagaaagatg cngctccaaa cncanactcg gntcngatg ttncagtgat cgatagaatg 360  
aaagcatcag tagagacagc atgtccaang actgtttcat gcgcagatat acttaccatc 420  
gcagctcaan aagctg 436

<210> 5083  
<211> 485  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-010-Q1-E1-H8

<400> 5083

cccctngtcg tcaagaaacc gggctcgnccc acgcgtccgg naatctccgt tgaagctttc 60  
cacaaatctc aaatttggtt ggagactctc aaatgtatcc ttctctcgac gatgatttcg 120  
tctctgattt gttttgcttc gatcaaagac tgatcaagag gatacctttc cagattttgt 180  
gtcatatggt gtgaatttgc agcaggagcc agatgaagtc tttagtattg gagcttctca 240  
attggatttg tctctgtata atggagtgtt gtcgctagag ccagaacagg tggggcaaca 300  
agattgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnga cgattgctcc agaaagcggg caaggactgg 420  
gatcgtgtan cagaggagga ggaactaaag cgtgtcntga aaagggtgaa ggagggagaa 480  
gctaa 485

<210> 5084  
<211> 686  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-E1-A1

<400> 5084

aanatggggg gacggaaggg gaannnnctt accgggtccg aaaattcccc gggtcgaccc 60  
acgcgtccgc aagggcagtt ttttcttgat attcctttca actttcctga gtatgtgact 120  
cctgcggngg nagaaaatct caaaangaga aaagatttac ttgagtgtta atgctggtac 180  
tggaacagaa gttctctgca aaggatgcag tcatcaacta aaggagaaat tgcggagtgc 240  
aggggaagttg aggtttgcat atgaagcaga tgttttgaag tggtcgaaca ctgactttag 300  
cttttcttat acggcctcct caagtaatat agttgggtgga cttttccttc aatctgcgcc 360  
tgttcacgat gttgatcaga gggacatatt ttctttctat ctttttccag gaaagcagca 420  
gaaaactaag gcattcaagc gggaggtagt atttgttggt gacataagta aaagtatgac 480  
tggnaaacct ctcnaggatg taaaaaatgc gatatctaca gctctatcta agcttgatnc 540  
tggagattct ttcaatatta tcactttcag caatgatact gctctatctt cgacatcaat 600  
ggagtcagtc acttctgatg ctgttgaaag angcattgag tggatgaaca agaactttgt 660  
cgtcgcagat ggtacaaaca tgctcc 686

<210> 5085

<211> 612

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-E1-A9

<400> 5085

ggaatgcata accgaggctg gaaatcggtt tactgtgtga cgaaacggga tgctttccgt 60  
ggnacagctc ctattaactt gacggatagg cttcaccagg ttctccgttg ggctactggc 120  
tcgggtggana tctttttctc ccgtaacaac gctcttctcg caagctcgaa aatgaaaata 180  
ctccagagaa ttgcctactt aaacgtcngt atctaccctg tcacatcgat ctctctcatc 240  
gtatactggt tctaccagc gctctcctc ttctctggtc agttcatcgt ccagacgctc 300  
aacgtcactt tctagtcta ccttctcatc atctccatca ctctctgctt actggcctc 360

ctcgagatca aatggtcagg aatctcactc naggaatggt ggataaacga ncagtttttg 420  
ctcattggag gaacaagtgc tcactctgca nctgtgcttc aaggtttgct caaagttgta 480  
ncangagtcc aaatctcctt cangctcacg aataaatccg ganganatga tatataccac 540  
aatttccgga tttgtacatg ggngaaaatg ggantttaac tttatgattc ctcccgaatt 600  
tacaaaccan tt 612

<210> 5086  
<211> 664  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-E1-B11  
<400> 5086

gccacgcgt ccgtcaaagt tgaattttct cagctctcac tctctttttc tctctcttta 60  
ggtctactgt atcaagaagc tccgttttgc ttagccatag tgcgtctagg gtttggttgg 120  
tggaagaag gttccgatca tggngtcggt gtcgtcgtcn gatcaaggac ctaagacaga 180  
agcaggatgt ancggcggag gaggaggaga gagctcggag acagtggcgg ngagtgatca 240  
agatgttgtt gtatagaggt ttaagaagg cgaagnanga tagaggttgt anagctaagg 300  
agcgtattag taanatgcct ccgtgcactg ctgggaaaag gagttccata taccggggag 360  
tcaccagaca tagatggaca ggtcgttatg aagctcacct ttgggataag agtacctgga 420  
ancaaaacca gancaagaat ggaaancaaag ttnatctatg agcatatgan gatnaanang 480  
ctgctgctag aacttacaac cttgctgcct taaaatattg gggctctggg aacttataa 540  
attttccggn gactgattaa ancaanggat tnanaagaaa tgcanatctc tnaagggaat 600  
aaagaccttg catctttacn ttgaagaaca tnggtttccc aagggaataa cccaantgtc 660  
gtga 664

<210> 5087  
<211> 666  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-011-Q1-E1-B3

<400> 5087

tcgcnagcct ttaccgggtcc gaaaattccc ggggtcgacc cacnccgtcc ggaagaaagc 60  
ttggntccag attgagagag attcagagag tcacatcacc aactccatc ntcagatctc 120  
atgatttgaa ctattccgac gtttcgggtgt tggtagcaac taagtgacaa atggaatccg 180  
aggagaaaac cgcggggaaag ccgatgaaga acattgttcc gcagacntgc cagatctgta 240  
gtgacaatgt tggcaagact gttgatggag atcgttttgt ggcttgtgat atttgttcat 300  
tcccagtttg tcngccttgc tacgantatg agaggaaaga tgggaatcaa tcttgtcctc 360  
agtgaanac cagatacaag aggctcaaag gtagtcttgc tattcctggt gataaagang 420  
aggatggctt agctgatgaa tgnactgttg agttcancta ccctcagaag gagaaaattt 480  
cagagcggat gcttggttgg catctactc gtgggaaggg agangaaatg ggggaacccc 540  
agtatgataa agaggtctct cacaatcatc ttcctcgtct cagancaga caanatacgt 600  
cangganant tttctgccgc ctcancttga acnccgcnc tanccttct actagcgcta 660  
ngggaa 666

<210> 5088

<211> 447

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-010-Q1-E1-G11

<400> 5088

gngatatttc aaactacaat cagctcgaga cccaagacga ggctcaggaa gaaaccggat 60  
ggaagcttgt acatggagat gtctttagga cgcccatgaa ctctgggtta ctgtgtgttt 120  
atgtcggcac aggtgttcag attttcggta tgactcttgt gacaatgatc tttgcattgc 180  
tgggcttctt atctccatcc aacagaggag ggctcacgac tgccatggtt ctcttatggg 240  
tattcatggg catatttgct ggttactcat cttctcgtct tcacaaaatg ttcaaaaggg 300  
aatgagtgga aaaagaatca cctttaagac tgcattcatg tttcccggta tactcctcgc 360  
gatctcctcc gtccaacan actcatatgg gggaaaacga ttatccggga gcaattccct 420  
ttantanaat gtttgcccn ggccgtc 447

<210> 5089  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-F3

<400> 5089

gacncgtggg gtgagaatgg agttgcaccg gatagagcac ttgacccggc tgttttgtct 60  
cgtctaaaac agttttctgc aatgaataaa ttaaagaaga tggcttttaa ggtgatagct 120  
gagagcctct cagaagaaga gattgcgggt ttaagagcaa tgtttgaggc aatggatact 180  
gataacagcg gtgcaatcac ttttgatgaa ctcaaagctg gcttgagaag atatggatca 240  
accttgaaag acaccgagat ccgagatctt atggaagcgg ctgatgtgga caacagcggc 300  
acaatagatt acagcgagtt tattgcagcg acgattcatc tgaataaact agagagagaa 360  
gaacatcctg tccccgcatt tcaatacnnt gacaaagatg gnaatggta catcanccat 420  
tgatgaaccg caa 433

<210> 5090  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-F4

<400> 5090

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tactgatct attcactcac tcaaatacgcc gccggagcta aatcaatcaa caatgacgtc 120  
gacctacacg agattcgata ccgtatttct cttttctagg ttcgccggcg ctaagtattc 180  
gccgttattg ccgtctccgt cgtttacttt atctacttcc ggcattcata tcagaaccaa 240  
accgaattct cgttttcact cgattatagc atcctcctca tcttcatctg tagtcgccgg 300  
aactgatagc attgagatta aatcgttgcc gacgaagcct attgaangga caaaagactg 360  
ggaactaacg gactccggga agaaggggtga aaagttttca tgggaagata antaatttag 420  
ccaaactggg attcagg 437

<210> 5091  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-F5

<400> 5091

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ctgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngct ttggtcaaac 180  
ctgaatccga gacacgaaag ggcctttact tcttgctgaa tcttgaccag aacatcgccg 240  
tgattgttcg tacaatctac tgtttcaa at cggaggagag aggggaacgag gaagcagtc 300  
aagtgatcaa gaaagctctg agtcaagttc ttgttcatta ctatcctctc gctggacgcc 360  
tcaccatcag tctgaangt aaactcacag ttgactgtac cgaagaanga ttgtgtttgt 420  
ggaa 424

<210> 5092  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-F7

<400> 5092

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gcgcgggtct ggaacagcga tgttaggttc tactgtgtca aagattcttc tggaaatcca 120  
actgcttatt tctactttga tccctactct cgccttcag aaaagagaga cggcgcttgg 180  
atggatgaag ttttttctcg tagccgagtc atggcccaga agggttcctc cgtagactc 240  
cctgttgctc aaatgggtctg caaccaaact ccacctgttg gtgacaagcc aagccttatg 300  
acattccgtg aggtagagac tgtgttccat gaatttggcc atgctcttca gcatatgctt 360  
accaaagagg atgaggggct agtggctggt atccgggaat atcgaatggg atgcattgaa 420  
ttaccgtcac agtttatgga gaactgggtgc taccacangg atacctta 468

<210> 5093  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-F8

<400> 5093

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gattcgacta ttccctgatt cattcgacga tgcattcttca gatttaatgg aagctccagc 180  
atatcaaaac ggtcttgatt gctctgtttt agccaaaaac agactcttgt tagcttgtga 240  
tccatcagct gttcatatag ctatgactct agatccagct tacttgcggtg gcacggtatc 300  
tgcagtacat tccatcctca aacacacttc ttgccctgaa aacatcttct tccacttcat 360  
tgcttcgggt acaagtcagg gttccctcgc caagacccta tcctctgttt ttccttcctt 420  
gagtttcaaa gtctatanct ttgaagaaac aaggtcaaga tctaattctt tcttc 475

<210> 5094  
<211> 489  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-F9

<400> 5094

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gttttagtag caaagcttgt tacgggttct atggcttatg atgatattctg gttcggggga 120  
cggactagga atccatggaa tatcgaggaa ttctctaccg ggtcatcagc tggacccgct 180  
gcatccacat cggctggtat ggttcctttt gctataggct cggagacagc aggetcaatg 240  
acataccctg cagcgcggtg tggcataaca gcattgcgtc cgacatttgg gagcgttggt 300  
agaaccggag tgatgagcat atccgagagc ctggataagc tgggaacctt cctntaaaaa 360  
acaaccggat nccccgttaa tcctgaccca tccaangaa agattcccaa tgatntccca 420  
accaaaaaaa ttncctttga anattccctc cccgttgata tcacaaaact cacaattggg 480  
tntacaaaa 489



<210> 5095  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-G1

<400> 5095

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 tacgggtgca ctacatgcat cgggaattct ggggaaatta atgaatcagt gggagctgct 120  
 attacgaaa atgacattgt ggcggctgct gtgctatccg gtaacaggaa ctttgagggg 180  
 cgtgttcate cactaacaag agccaattac cttgcatctc ctccgttggg ggttgccctat 240  
 gctcttgctg gcacgggtta cattgacttt gaaacggagc ctattggcaa angaaagaat 300  
 ggcaaggacg tcttcttaag agatatctgg ccaaccacgg naagaaaatt gctgaagttg 360  
 ttcaatccaa gtgttttgcc ctgacatggt tccgaanaaa cttcgaantc aatcaaccaa 420  
 agggtaaacc ccaagtttgg aataaacctg tccggttcct ganaaaa 467

<210> 5096  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-G10

<400> 5096

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 ttaaagttat ctccaatgat ctttctccta gcaatgatcg gcgtttcata tgccatggac 120  
 atgtcaatca tctcctacga cgaaaaccac cacatcacca ccgagaccag ccgtagcgac 180  
 tcggaggttg agagaatcta cgaagcgtgg atggtggaac acggaagaa gaagatgaat 240  
 caaaacggtc ttggtgcaga gaaagatcaa agattcgaga tctttaaaga taatcttcgt 300  
 ttcatcgatg aacataacac caaaaacctc agttataaac ttggtttaaa ccggtttgct 360  
 gaattaanca atgaaggagt acgattcaag ttacctgggg gcaaaacgaa caaagaaggg 420  
 gtttgaaaac cantgatngg tancaagncc ntgttggtga agcgcttcct gaatccgttg 480

a

481

<210> 5097  
<211> 512  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-G11

<400> 5097

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catgttttcc gttgtcggag gtaaggccag gtattcgtgc cgttcggctc caccgatcgtg 120  
ccggagaggt ctacaagcac gtgagactgc tcatgcggtt tgtcttggag cctcgttagc 180  
gcttcgtgga taatgttcat tcatcactcg tgtcaatgtc ggtacacgtt ttttatgttt 240  
gtaatgttaa ggtgtcggta tacattagtc agtcatacta agccatacga taataagaga 300  
tgnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnntggt tgaacaaaaa aaaaaaaaaa gggngngcgc cccaaangat 420  
ncaaaacctt agtnagcntt caatgccaaag tcaaaactcc tccaanaatg gtcaactaaa 480  
ttcaaataca ctgggccgtc ctttttaaaa cc 512

<210> 5098  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-G12

<400> 5098

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aaattatcga agccactgg tttcggagct gatcgggtctc tatttctctc ttcatacata 120  
tctcaagcag ataaagtga tcggatacta gaatgggagg aggatttaga gttttgcatt 180  
tggtgaggcc attcttggct tttctgctg aggttcagag tgctgatagg aaggttccat 240  
tcagagagaa gggtatctac actgtcatct ctctcttcat ctttcttctc tgcagtcagc 300  
ttcctcttta tggaatccat tccaccaccg gtgcggattc attctattgg atgcgtgtca 360

ttcctgcgtc caaacctgg aactgtcatg ganctcggta atactcctaa tgttacatcc 420  
 ggacttgtga tgcaactcct ggctgggtcc aaagaataat ganggtgaca acaatgttcg 480  
 tgag 484

<210> 5099  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-G2  
 <400> 5099

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 attaacaagc ttttcaggaa atggatcatt catcaaatag atttggaat aatggagtgg 120  
 aatcgatttt accgaattac aagcttggtg aaactcttgg aattgggtct tttgggaagg 180  
 tgaaaatagc agagcatggt gtcacagggc ataagggtgc tatcaaaatc cttaatcgtc 240  
 gtaagatcaa gaacatggag atggaagaga aagtgaggag ggagattaag attctacggt 300  
 tgtttatgca tctcatatt attcggcagt atgaggtaat agagaccacg agtgacattt 360  
 atgttgtgat ggagtatgtc aagtctggag aactcctttg atataatggt gagaaaggca 420  
 gattacaa 428

<210> 5100  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-G5  
 <400> 5100

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 ctgcttgatt ttctttaata tgcaggagtt tgtcagactg acggtgtaac ggaacgggaa 120  
 aagccaaacg tgagacaaac gctggtcacg gcttatgata cattgctagc cccacaagtc 180  
 aaaacttgta tcgaagtgtc acattttcct caagacaacg cgcgtttcgt gaaaacgcga 240  
 gtaaacggcg gtggaataac aacatgtatt gcaacatggt ttagccaact ctgcattctc 300

ctccacagac ttttaaaaga acggcggtcac gaatcctttg acttacttcg catttttccaa 360  
 gtcgtcgcgg cttecgattct ttgtgggcnc atgttggtgg gactcctgaa ttatccgaag 420  
 acgtacatga acggacta 438

<210> 5101  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-G6  
 <400> 5101

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 cctgaagcta agggatatttt ggttaattca tacacagctc tcgagccaaa cggtttttaa 120  
 tatttcgatc gttgtccgga taactaccca accatttacc caatcgggcc gatattatgc 180  
 tccaacgacc gtccgaattt ggactcatcg gaacgagatc ggatcataac ttggctagat 240  
 gaccaaccg agtcatcggg cgtgttcttc tgtttcggga gcttgaagaa tctcagcgct 300  
 actcagatca acgagatagc tcaagcctta gagatcgttg actgcaaatt catctgggctc 360  
 gtttcgaacc aaccggaagg agtacgcgag cccttacgag gctctaccac acgggttcat 420  
 ggaccgggtc atggatcaag gcatt 445

<210> 5102  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-F12  
 <400> 5102

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 agaattcggc tatgtgagta gcagtgactc ggatatggtt acaccgcttt cgcggatgca 180  
 tatgaagggc aagaaaagag atttaattgt tgacactgat gaagagaaga cctcaaagaa 240  
 gaaagcaaag aagcacaaga agtctctccc gaattcagat atcaaatata agcaaacaag 300

tgcactactt gatgaactgg gaancatcaa agccgtctga cagtatggtt gttgataatg 360  
 agttgaaatt tgacgaacaa gggttaaact gtnaggaaaa aattcatcac ttccaagcca 420  
 ataaagcgtg ttcctaagat naagccagag aaantgaaga aanggaatcc gtgggc 476

<210> 5103  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-D10  
 <400> 5103

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 acagcctccc actcaagagt tagttgcaaa ggatttgcac gcaaatgact ggcgattcan 120  
 acatatattc cgggggtcaac cacggnggca tttgctacag agtgggtgga gtgtgtttgt 180  
 tagctccaaa aggctagttg caggcgatgc gtttatattt ctaaggggag agaattggaga 240  
 attaagagtt ggtgtaaggc gtgcgatgac acaacaagga aacgtgccgt cttctgttat 300  
 atctagccat agcatgcac ttggagtact ggccaccgca tggcatgcca ttccacaagg 360  
 gacaatgttt anaatcaaca caanccaaga acaagccaac ctaatttaat gntccgttcc 420  
 attaattata tgagtcggtt aaaaataact nctccaattg naagagaatc caaattaga 479

<210> 5104  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-D11  
 <400> 5104

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 ttcttcacca ttaatccata accatcatgc ttctcggtat gtccttgat ccctctccgt 180  
 cgtatctctc ccccgtaag tttcccgccg tggcctctcc gttaaatacg ggttgatcga 240  
 gccagacgga ggaaaactca tgaacctcgt agtcgaagaa tcacggcggc gcntgatgaa 300

acacgagggcg gaaacgggttc cggcaaggnt taagctgaac cgtgtggggtt caaaaatggg 360  
 tacatgtgct taacnaaggc tgggcaantc cncccaaagg tttcatgaaa cattaangtt 420  
 cctccaaaaa cttaatttta acncgttc 448

<210> 5105  
 <211> 403  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-D12  
 <400> 5105

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 nnnnnngata atgggagcct atgaaacaga anaaccaact aaanatgcgg cggctctaga 180  
 gacacagtcg ccggaagatt tcgatcaacc atctccgctt cgtaaaaatc atctccgctg 240  
 ctcccatcgc cgccgggtgta cagttcgggt gggccttaca gctctctctt ctactccgt 300  
 acgtttcaan tctcgggaat ccctcacaaa tggatcatctc ncatttgggc nctggtggtc 360  
 caattcccng gcatgantgg ttaaaccaaa ccgtcnggtt tcc 403

<210> 5106  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-D2  
 <400> 5106

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 tctctctccg atcccgttaa ggcccaactc gttgagagat tcaaagatct cggcgttacc 180  
 atactctacg gaagtttaag tgataaagag agcttagtga aggcgattaa acaagtcgat 240  
 gtcgtgatat cagctgttgg tcggtttcaa actgaaattc ttaatcaaac caatatcatc 300  
 gatgccatca aagaatctgg aaatgttaag agattcttac cgtcgggaatt ggtaatgacg 360

tggatcgtac ggtagcattg agccaacgct atcaagagtt catcactaaa agctcagata 420  
 aggnngtgg 428

<210> 5107  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-D6  
 <400> 5107

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 acaatgctaa gttggagtct cattgagtat agccacaaat acaaagccat cgatgagtat 180  
 gatcacatga gagatgttct caaatggggc actgattatc ttcttctcac tttcaacaat 240  
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 tcaccagatg atatctactg ttggcaaaaa ccagaagaca tgtcctacga ccgtcccgtc 360  
 ctctcttcca ctteggccgc tgacctgggc gcagaagttt ctgcagcctt agctgctgct 420  
 tcaatcgtat tcaactgacaa accggactac gccaaaaagc tcaaaaa 467

<210> 5108  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-D7  
 <400> 5108

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 cagaggcttc aatgaagctg taaatggttt cactgatgaa ggatggtcag tgataggaga 180  
 tagcatggat gatgtcacia tcaactgtaaa ctcttctcca gacaagctaa tgggtctaaa 240  
 tcttacattt gccaatggct ttgctcctgt aagcaatgtt gttttatgcn caaaacatca 300  
 atgcttttac aagaatgttc ctccggcgat cctgcttcgg ttctgaagga gcatangtca 360

gaatgggctg acaacaacat tgatcgtatc taacaacaac aatttaaan

409

<210> 5109  
<211> 427  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-D8  
  
<400> 5109

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tttccaccat tcaaatcaag taaacaagat ggtgttggtg ctggagtatt tgctgggtata 240  
ggtataggag tgattgtggc tttgttggtt atcttggtta tcgtatatta tgcttaccgg 300  
aagaataagt cgaaggggtga ttcgttttct tcttctattc cgttgtctac taaggctgat 360  
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attgctg 427

<210> 5110  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-D9  
  
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taccggccaa agcgtcgcgg tgaaaatcct caacaagaaa aaactcctca caaatccagc 360  
tcctagccaa caacatcaaa cgccaagatt tcaatcatga agaagaatta ctcatccaaa 420



catcgtcaaa gctccacgaa gttatggnga caaaatcaaa agattctcct cccaatggga 480  
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<210> 5111  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-E12  
 <400> 5111

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 cgatcacata tttcatctgt gtgttttcat tttgaggatg ccagcaacgg aatatcaaag 180  
 atcattcggg aggtcttttc tgaatttacg gcgagacacg gcggtgaact cggttgagtc 240  
 aacgacgggt acccccaggt tgactcagat ggaagcagag cttgtttcgt ttcagagaaa 300  
 agttgctgag aggtttatcg atctcaatgc gtctagttgt gaagatctac tgtctctcga 360  
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<210> 5112  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gctaaattca atgatataaa caaagcactc caggaaaaag gatatggtaa ggctctgaaa 180  
 agaaaacctt ggacgggtgt gacatgccct gtctgtcttg aggttcctca caactcggtc 240  
 gtctctcttt gttcatctta ccacaaagga tgccgtccgt acatgtgtgc cacgggaaac 300  
 cgttttctcaa attgtctaga gcagtacaaa aaggcatatg ccaaggatga gaaaagtgc 360

aaancgccag agctattgtg cccgcnttgt aaggggtcaag tgaaaaggtg gancgttgtg 420  
ga 422

<210> 5113  
<211> 486  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-E3  
  
<400> 5113

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atccccc aaat cgggaactga gattccgatt cgaagatgtc gtcgtcttct ccgagtggaa 120  
gcggtagtga tttgactgag agaagagggga tncctgccgc caaattcatc caagatgtgg 180  
agacttatct ctctcagtct ggtctcgatt ctaactctgc tctcgctttt caccaaagaa 240  
aggcttcagc aatataaagt tgttgagatg aaacttcttg ctcaacaaag ggatnttcag 300  
gctaaaatcc caaatattga aaagtgttta aaagggttgtt gccaaacttg aaaccaaaga 360  
aagggtactgg gtaaggccct cctaaactga attttggangg tgtcctgaan gaataatatt 420  
cacggggcct gcanttgaag acacagactc cantgtgttt tgtggggttg gaanctaattg 480  
tcaagc 486

<210> 5114  
<211> 422  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-E5  
  
<400> 5114

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ctcttgctgt atttaagctt ttctaattggg ttactgcaac ctcgtaggat ttctcatgga 180  
ttgtccaaaa gtagcaagta cttgacgagg gatgagctct ggttcactca aaccttagat 240  
cactactctc catctgatca tcgcaaattc agacaggaga tactatgaat atcttgacca 300

tttacgagtt cctgacggac ctatccttct caatgatttg cggcgaangg accnttgcaa 360  
 tggaatcacc aataactata ttantgtgtt tggcaaanaa ntttgatgca nggaattgtt 420  
 ca 422

<210> 5115  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-E6  
 <400> 5115

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 ttttactctc aaagctttca tctttcattc anctacttaa gctccaanta tggcaggatc 180  
 cgcaccggaa ggaacacant ttgatacgcg tcagtttgac cagaggctga atgaagttct 240  
 cgatggacag gatgagttct tcacctcata tgatgaggtc catgacagct ttgatgccat 300  
 gggtttgcaa gagaatcttc ataggggtan ctatgcttac ngtttcgaaa agncttcngc 360  
 tattcaacan nnaggaattg tacccttttg caagggctct gatgtgatcc agcaggcaca 420  
 gtctggttct ggaaaaaccg ccactttctg ctctggtgtc ttcancaa 468

<210> 5116  
 <211> 496  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-F11  
 <400> 5116

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 gatgtggttt tttggatcga aaggagcatc tggattctcg tctcgttcaa ctgcagagga 120  
 agtcacacat ggtgttgatg ggactggtct cactgccata gtcacaggag catcaagtgg 180  
 tataggagta gagacagcgc gtgttctttc actgcgtggt gtgcatgtgg ttatggcggt 240  
 gaggaacact gactctgggt gctaaagtta aggaagatat tgtcaagcaa gtccttgagg 300

ctaaactcga tgtcatggga gttaagattc caactcaatt caatcctgtc aaggaaattt 360  
 gcgtcctgag tncaaacta ctggtcctcc aatcaacctc cttgatcaac aatgccggga 420  
 ttatggcatg tccttttaag ctctctaagg acaacatcca gctgcaattc ccaaacaatc 480  
 aattaagtca atttct 496

<210> 5117  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-D1

<400> 5117

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 gcgtttcata tgccatggac atgtcaatca tctcctacga cgaaaaccac cacatcacca 180  
 ccgagaccag ccgtagcgac tcggaggttg agagaatcta cgaagcgtgg atggtggaac 240  
 acgggaagaa gaagatgaat caaaacggtc ttggtgcaga gaaagatcaa agattcgaga 300  
 tctttaaaga taatcttcgt ttcacgatg aacataacac caaaaacctc agttataaac 360  
 ttgggttaac ccggtttgct gatttaacca atgaggagta ccgattcang ttacctggtg 420  
 ctaaaacgan caaagaaggt ttgaaaaca antgttcggt atcaaggccc ntgttgg 477

<210> 5118  
 <211> 507  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-A9

<400> 5118

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 cgtgggtgat gacgcaatct tggaggaaag aataaccggg cgatggatcc acccatcgag 120  
 tggcaggagt taccacacca aatttgctcc tccaaaacc cctggagttg atgatattac 180  
 tggagagcct ctgatccaac gtaaagatga taacgctgat gttctaaagt cgaggcttgc 240

agctttccac agtcaaactc aaccggtgat tgattactac gcaaagaagg ccgttctcac 300  
 aaacatccag gccgagaagg ctccccaaga agttacatca naggttaaaa aagcattgtc 360  
 atgatcaaag actcctcaag caaatcatct cctccgggnt anaatccaat ccttttcctt 420  
 actaacaag agagaagac acatctatat natccaactc atcctggcng gaattgacaa 480  
 ttttttcctt taaatccctt gcgcctt 507

<210> 5119  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-B1  
 <400> 5119

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 acctccgcga actatgcgct tcttttgccc ttatcctcca actacttgtc ggatctgcaa 180  
 ttcttcttgt caattcccaa ccctaactcg agctaatacac acctctgctc gtttctcttc 240  
 tcgttagtct ctgctccatc tctcctcag atttaaggga tatttgcttc caatttaaca 300  
 aacaaaccaa gagctattct tcgttcttta atctctccgt cttgtaaagt agtttttagca 360  
 gtgagataca tacaaatgga gacttcatgg ggaaaccaag cttctacggg aaataanggt 420  
 cgcgtgcttc ncnttggggg tctacaacgg tggga 455

<210> 5120  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-B11  
 <400> 5120

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 attattcatt cctccaatg gatctccgct ggaggcctcc taaaccaccg gttaccaaca 120  
 acaacaactc caacggatct ttccgttctt atcagcctcg cacttccgat gacgatcatc 180

gtcgccgggc tacaacaatt gtcctccac cgaaagcatc cgacgcgctt cctcttccgt 240  
tatatctcac aaacgccgtt ttcttcaagc tcttcttctc cgtcgcgtat tacctcctcc 300  
ancggtggcg tgacaagatc gttacaatac gctcttcang tcgtcactat canagaactc 360  
ggcgccatta atgctcccat tgcntcgttt aactantcc naagggtttt tggtaatgaa 420  
tttggttaat catttaactc aagtnccctcc ggggtgaagcc 460

<210> 5121  
<211> 479  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-B12  
<400> 5121

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tcgaagccca ctggtttcgg agctgatcgg tctctatttc tctcttcata catatctcaa 120  
gcagataaag ttgatcggat actagaatgg gaggaggatt tagagttttg catttggtga 180  
ggccattctt ggcttttctg cctgaggttc agagtgcgta taggaagggt ccattcagag 240  
agaaggttat ctacactgtc atctctctct tcatctttct tgtctgcagt cagcttcctc 300  
tttatggaat ccattccacc accggtgcgg atccattcta ttggatgcgt gtcattcctg 360  
cgttcaancg ttgaactgtc aatggaaccc cgtaataccc taatggtaca tccggacttg 420  
tfaatcaact cctggctggg ttcaanatta atgaaggtna caacaatggt cctnaagga 479

<210> 5122  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-B2  
<400> 5122

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tatagaagaa gtaatctctc tttttctcta tttctctgta ttactttctc tttttttttt 120  
cgtgatggag aaaaacacac cggtagggaa accacacatg tcgacggcgg atctactcac 180

ttggccggag aatcaaccgt ttgagtctcc cgccgcgta tcttctcgct ccgcccag 240  
atcgaccag ccgtcggatg gaataagcaa agtcgtatgt ggaggacaag ttacagatga 300  
agaagttgag agcttgaaca agaggaagcc ttgttcaaata tacaagatga aaagaagatn 360  
acanggaatg ggataatccc tgtggtatga agaaaattga tgantctgan nttagcaagt 420  
ggctaaattc cgccaacaaa anggnaaatc caagaacttt caagcaacca aca 473

<210> 5123  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-B4

<400> 5123

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aacaacaaacg atggagatga tgaagattga tcctttattc gatcgtgcca gtgagcttaa 120  
agctttcgat gaaacgaaaa cgggtgtgaa aggactcgtc gactccggag tttcacaagt 180  
tccacgcatac tttcatcatc caactgtcaa attatcaacc ccaaaaccac ttccctcgga 240  
cctgctacat ctcaagacga tcccaacgat cgatctcgga ggacgggact tccaggacgc 300  
gattaagcgc aataacgcga ttgaagagat taaagaagca gcagcgaagt ggggtttcct 360  
tccaagtgat taancatgga gtttccgctt gaacttcttg agaaagatga aaaaaaggan 420  
tcgtgacttc caacg 435

<210> 5124  
<211> 300  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-B6

<400> 5124

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gtccgagacc anoo 120  
oo 180

nnnnnnnnnn nnnnnntgtc tgtcaatggt ttggattcnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngggcg 300

<210> 5125  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-B8  
 <400> 5125

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 aagatcaagg cagcatatca gtttttccct tatactttac ttggatctct ttttatgcta 120  
 ttagctatct tggtgattct tttccaaaca ggaaccacg atttacnggt attattaacc 180  
 acagaattta gtgagcggcg ccaaactctt ctatggattg cttttttcgc ctctttcgcc 240  
 gtcaaagtgc ctatggtacn agttcatatt tggttacctg aagctcatgt anaggcacct 300  
 acggcaggat ccgtcatctt ggcaggaatt cttttaaaat ttggaacctt cgggttttta 360  
 agattttcan taccatgtn tcncgaagcg acactttggt ttactccttt canttatact 420  
 ttaaagcgcg antgctanaa natatacgtc cttgaaccac ttttaagnacg a 471

<210> 5126  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-B9  
 <400> 5126

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 ttttccctcg acgaagcttg attatcatgt agacatgttc aatcttcagt ctcatccag 120  
 atttctctcc ttatttaagg cgcaagatgg acgcatagct ctaatactag aatcaacggt 180  
 gtttcatcca caaggtggtg gccagccgtc agacaccggt ttaattgttt tctccggttc 240  
 ggatttgaaa ttttccgttc aagatgttcg atngaaagac gggattgttc cccaatacgg 300  
 ggttttcnaa aggtccaatc ctgaaanttg gaattgatan tgagaaangg aaaagaattt 360



tacttaactg nttatgaatc aangnggtta actccantcc aagtttcact cacttggnca 420  
 cttgc 425

<210> 5127  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-C10

<400> 5127  
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 actcagtggg gaaaatggag aatcaagagc ctgatatcga gaaattgcct cgagacgatg 120  
 ttctgatag agaaccagac cataagaagc tcaagatttc gaccaccggc caggaaactg 180  
 attcctcggc tgttaccacc ggcggaagca atgtcgctga gcgtagagcg ccgaaatata 240  
 gacgccggaa agtcgcaatc gtgtttgcgt tctgcggagt agggatatcag ggaatgcaaa 300  
 agaatcccgg cgccaaaacc attgaaggcg agctcgaaga ggctttgttc catgccggag 360  
 cagtacctga tgctgatcgg aacaaaccan gaanttacga attgggcaca ttcggctana 420  
 acggntaang gattaattcc ggtggganaa ttggttcggg gccntttcaa gttggttccc 480  
 cnggattttg gg 492

<210> 5128  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-C12

<400> 5128  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtcgta ttggtgttac 180  
 agttgtacac gattcatcag cgtttgggaa gatcaagacg caaacgctgg agtcttatgt 240  
 ccttattgca acggtggatt catcgaagag attgaagatt cttctaattc caccgtcgcg 300

gcgattccgg cttegactcc ggaagttaga tcggttgagg aaacacatag atctataatt 360  
 agacgtcgta gatctaatacg ccggacgtcc tttaatccgg taatcgtctt acacggcgga 420  
 ngaagaagga gganccggtt aaaaaattt 449

<210> 5129  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-C5  
 <400> 5129

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngaaaatcta gaagaagaga aagctacaaa 120  
 aatctcaaca tcgagtttcc aatttggttc atgcaggtaa gagttttggc tacagagcaa 180  
 ccatgctaac ttgcgcttc tcccaaaatc ttatccacta atctcggtaa ggaaagtgat 240  
 gttggcaaaa tggatgaaga aggaanttgg ttttctgcta tcaaagggt ttttaatcca 300  
 nattccaaag agaantagc caatcangaa acagagagaa agantggnaa annaanagaa 360  
 naaaaaangt tttngggaaa ctnaaggnat ggggaagacc aattcaattt ctcccanct 419

<210> 5130  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-009-Q1-E1-C6  
 <400> 5130

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 tttcgccatg gaagacgacg gcaagagcag cccaagtta ccgatccctg naaagagaaa 120  
 tataactaat accantgctt tgccttacgt caacancgtt cctcanctcn gaaacatcat 180  
 cggntgtgtt ctgancgctg aggtgtatgc tagatactgt cgtctccgtg gctataatgc 240  
 gatttacata tgtggaacng atnaatatgg gactgcaact gagaccanag ctttgggagg 300  
 gagaattgca tncnnaaagg anatctgtga cnagtaccat gccattcata aaagaagttt 360

atgactgggt ttgggtataa nttttgacaa agtttggggc aaaattnaan tccaagacaa 420  
gactgggggg tgtgccca 437

<210> 5131  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-C9  
  
<400> 5131

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caacgcgggt cagatccgag tttgggagat tcaagctccc tgaaaaaagc cctttactct 120  
cgcttaccaa ctttgctcca gcatggcagg atctgcacca gaaggcacac agtttgatgc 180  
acgtcagttt gaccagaaac tcaatgaagt acttgaggga caagatgagt tcttcacatc 240  
ctatgatgat gttcatgaga gctttgatgc catgggtctt caagagaacc ttctcagggg 300  
tanttatgcc ttaatgggtt ttgagaaagc cttctggcaa tcaacaaana aggaaaccgc 360  
cccctccggt aagggccttg angttaatca acanggtcaa ttctgggaat ggggaaaaca 420  
acaacttttc tggcccgng ttcttgcaac aaactggaan tncnccctta accaatgtca 480  
agg 483

<210> 5132  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-009-Q1-E1-A7  
  
<400> 5132

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ttcatttggc aaagggtcca taatgtatct cggtcgtgct gtttctccta gaaatgtccc 180  
ggttttctct accgcatctt ttgcccttga tgtagctttg ggagttggtg gccttcctaa 240  
ggggcgtggt gtggagatat atggctcctga agcatcggga aagacaacac ttgctcttca 300

tgttattgca gaagcacaaa aacaaggagg aacctgtgtc tttgtagatg ctgagcatgc 360  
tcttgattcg tcacttgcta aggcaatcgg tgtaatacaa naaatctgct tcaacacagc 420  
tgattgtggc naacaaggc 439

<210> 5133  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-007-Q1-E1-C4  
<400> 5133

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caaaggctac agagcttatt attacaatgc cagcttctat gagtactgag agaagantca 180  
ttctcttagc ttttggagtt nagttggttt taactgaccc agctaagggc atgaaaggac 240  
tatccaaaag ggcngaagaa atttggcgaa acaccantgg gtnaatncct caacaatttn 300  
nggaacctgg caaacctaaa gttcactatg anaatncggg aactgaaaaa tgggaaagna 360  
ccgggggcaa atccaatggc nttgttccgg gaattgntac tgggtggtacc aattacaggt 420  
gctgggaatt 430

<210> 5134  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-007-Q1-E1-C7  
<400> 5134

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cgctaccaga ttggtccaga ccagattgag gctttgtacc agtacgcaa gtttcagttt 120  
gaatgtggca actattctgg tgctgctgat tatctttacc agtacaggac cctgtgctct 180  
aaccttgaga ggagtttgag tgccttgtgg ggaaagctcg catctgaaat attgatgcaa 240  
aactgggata ttgctcttga agagcttaac cgtctcaaag agattattga ctcaaagagt 300

ttttcatcgc cgtaaacca ggtgcagaac aggatattggt tgatgcattg gggctctgtat 360  
atctttttta accatgataa tggaaggaca cagatcattg atctttttta 410

<210> 5135  
<211> 422  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-007-Q1-E1-D11  
  
<400> 5135

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tcacgtcttc ttatccatcc ctcttaacac agatctctca aactctcatc tcttctcttc 180  
caccttctgc aactctcgac gtcgtctgtg gtgttcctta cactgctctc cctatcgcca 240  
ctgttgcttc tgtttccaat ggtatcccta tgcttatgcg gcgtaaggag attaaagacn 300  
atggaacatc taaagctatt gaangaatct tcgaaaagga tcaaacttgt ttgataattg 360  
aagatcttgt aactagtggg gcntctgttc tcgagactgc tgctctcttc gtgctgtggg 420  
gt 422

<210> 5136  
<211> 432  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-007-Q1-E1-D5  
  
<400> 5136

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catcggagaa tcttctcttc cataggaaaa tgcgtcttaa ttccctgagg catgtcgagt 180  
ccatgtccca gctaccctca ggtgccggaa agatctctca attaaacgcc gtcgtgttag 240  
gagaatccct tgcatcggag gagaatgatc tcgtctttcc cagcaaggaa ttctccggcc 300  
aggctcttgt ttctccctcc caacagtaca tggaaatgca taagaggctg atggatgacc 360

ctgctgcttt ttggtctgat attgcgtctg agttttactg ggaaagcana aatgggggtga 420  
ccaagtgttt cc 432

<210> 5137  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-007-Q1-E1-E10  
  
<400> 5137

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acgtgagtgg attccctaaa gaatccgacc tctacatcgc cgcaaccacc gttgacttac 180  
gtgtacctcc cggatccatg gcggttctag tcaagaatct ctacttatct tgcgatcctt 240  
tcagccgcgt tcgcatggaa aaacccgacc ctctgcacc tgcttcgcgt gctcgcgctt 300  
actctatcgg caagccaatc tctggatttg gaggggctaa agcaatagat tcatgtcatc 360  
caaattacaa aacaaggaga tttacttttg ggaagagttg gatggggaag agtatagtgt 420  
tattactcca actccttctt cacatttcaa gattcatcac actgatgttc c 471

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<213> Arabidopsis thaliana  
  
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agagagattt tggcgtatca tccacagatg ttgcaagagt atctacaagg agaagagaac 180  
ataaactcnc antttctata cccaagcgga gttgatcagt tcaaacaaga ntttgcccga 240  
ctcnaagaac acaacgacga tgaagaggaa cacaactccc caccacatca gagaaagtac 300  
acgtcactcc ctatagaacg ggtgttgctc atcagaagac nanngttctg attcagttca 360

tgetcaatcg ttttcagctt cngntgggtgt ttacaccctc cacaggactc cancacacag 420  
cnaacgggct tatcat 436

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<212> DNA  
<213> Arabidopsis thaliana  
  
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ccttagcgga tcgatcgtag attataaaagc tccgcgcgtc cctccgccgc aatcgacggc 180  
gggtgtctacg tcgctttcgt ttcgtgcgta acaggaggag cagcagcaaa ataagtcagc 240  
ttaagtaacg ccgtctttga ttgacttga gataagtatt ttggtgatat ggcattgatg 300  
atgtttccgc atttgctcga cgttgacgaa aagtaaaatg ctggcgaatt ggaagaaacc 360  
acatacagat tgatgctctc ttcaatcgac tcntttgtaa atttgttgaa acttacgggg 420  
tcnaaagggtg tgt 433

<210> 5140  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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aaagcttcta ctacttttga aggctttttt tgtgaatctt ccgtttgccc gtggctgtgt 180  
tgatgtgtgt gtctgttttt tttttttgtc tgcatatctt ttgtcaaaaa tgaatgctct 240  
gttttggtct gaaactgaga tcttgagtca gatttttttt cattatcaag aagattactg 300  
ataaaanana naaanganga nnaaaaaaaaa aaaaagggcg gcnnctcca aaanggattc 360

caaagcctta acgttacgcc ggtgcaaatg ccaaantca aaaagcctcc ttcctaaaaa 420  
 ttggccancc naaaaatttc aagtttcacc gng 453

<210> 5141  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-007-Q1-E1-F10  
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 acgaagaaat tcaaaaaacc caattctgct ttttcccgat aacttcgata gtcttcgctt 180  
 gggttttgtg taatttgagt ctgtgaattg aaccgagccc caccaaagta aatgctccat 240  
 aacgttgaaa acattttctt ctttatacaa gaatttcaaa ttgtttcact ttctccatag 300  
 gggtttttgg ggttctctgt ttttctttga cgaattttga ttttgcaaat tcaggaaaaa 360  
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 tcag 424

<210> 5142  
 <211> 436  
 <212> DNA  
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 <223> unsure at all n locations  
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 ctctccgcc tgatgagttg tttgacattt cgactacagt tgatcctagc tatcttattt 180  
 cactgataag gaaactcctt ccaattgatt cggaagtga cgaacgacat aatgatcata 240  
 tgaatacggg taatgtggtt caaggtgtag tagctatatc tggaaatggg gttgttgaga 300  
 cttccaatgg tgatccagag agcatggaca ttggagataa tcatgatgaa tccacttatg 360  
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atgggaaaat naatgg

436

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<211> 398  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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aagcctgtca gccacagcaa atcacctatt gttcacaaac aagctttcaa ntcanttgat 180  
ttaaattggag tatatgtcca cctgttagtt gataatcttg taagctttct tcaagcatac 240  
tcacccctctg atttcgctgg attcagctgt acaattccgc acanagaagc tgcattgcan 300  
tgttgtgatg aagttgattc attggcaaag tctataggag ctgtgaacnc tanacnaaag 360  
gncaaaaang tgaccngnaa gttgttgggg ttacanca 398

<210> 5144  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 5144

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tcnctcttcc ttcttctnct tcccttccat ccttccaaac cctattcccn aattctcatt 180  
cccttctctg tgcttctccc gtctcattcc aaccngactc cgactccgag tcaactgctag 240  
aatccgaatt tgaanccgga tccgactccg agtctctctc ttccattact cgaaaactng 300  
angacatcga tgctcnctcc tccaacataa canngacga gctattcagc tcnctcncc 360  
aacgtgactc ccggcgctg aaaatctatc gccacactcg ccgctcaaat ccccgggaaa 420  
gaaacgtgac tcacgcgcca cgaccgggtg gattcagnaa gctcagtcgt c 471

<210> 5145  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-007-Q1-E1-G2

<400> 5145

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tttaagccag atgggggtgat tctgtttctca gacattctca ctccattgtc tggaatgaac 180  
atacctttcg acattggtaa agggaaaggg cccatcatct ttaacccgcc tcaatcaagc 240  
tgccnacgtt gcccaaagtt aaagaattcg tancaaaaga atctgttcct taatgttgga 300  
naagcantca aaangantaa gaaatgangt gaacaatgaa accgctgttc cggaattgt 360  
tgggagctcc aattacanct tctccgaag ttaatcnaaa ngnggtccan cnaagaactt 420  
cacaccngat taaa 434

<210> 5146  
<211> 231  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-007-Q1-E1-G5

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acatgatgtg gtcgaaatcg ttgactttgt cagctctatg taacataacg ttgtctcgat 120  
atatgtggca accaaaaata tgttttatga aataaagtgt tctcaaatg tttatgaaga 180  
acatttcgtc ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngggc g 231

<210> 5147  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-007-Q1-E1-G7

<400> 5147

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ccataactct agcctctata ggaacaggtg ggacacggtt cacattagca actgctggtg 120

cgaaccagta tgaaaaaact aaagaccaag gaagcttttt caactggttt ttcttcacaa 180

catatctagc cggagctata agtgcaaccg ccattgtcta caccgaagac aatatcagct 240

ggacccttgg gtttgggtctg tctgtagccg ctaatttctt cagttttttg gttttcgtct 300

cggggaaaaag attctacaag catgacaagc ctttggggaag tcccttcaca agtctactat 360

gcgtcatttt cgcagcatta cgcaaaagaa aagctgtggt ttccaccaac gaaaaagact 420

accacaat 428

<210> 5148

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-007-Q1-E1-C1

<400> 5148

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tggttaactt catggtgaaa acacacaatg aaaggcttag tcgtttgctc gttgcgataa 120

ccgtaccgtt actgtaccgt ggcttccggt acagcctctt tgatttcaat ggtgaaattc 180

tccggaggat caatgaacca tcaactccatg gatatactga tacaacgact tcttgctgcg 240

gaactggatc gagaaatgca tacgggtgcg gttatagtaa cgtgcatgct aagctctgca 300

gctaccanaa atcatttttg ttctctgacg ggcgtcacia caccgagaaa accgatgaaa 360

gaagttgcta atccgtttta atcccggaga caaacatgtc gtccttccga tgaatataaa 420

aggatctcgt aggtaaa 437

<210> 5149

<211> 449

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H7

<400> 5149

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cgaaggcagc tagagaatgg gggaagtcaa aggtttttgc tacttcaagt ttcatgcctt 180  
cttcagatth ccaggaggct aaggcgthtc cgggtgcata ccagtgggga tcagthttctg 240  
cggccaatgt tttccgcaga tgccaatthg gtggtgcgtt tcaaacgcg acgccgctth 300  
tactaggcgg ttcagthtct ttaccaactc atcttctct tgttccacga gtgggctthc 360  
tccggatcat cctctcaag ctcaaatcc ttttatggcg gnactataag cntccttaat 420  
gacatatctc cccgataagg ctcaancca 449

<210> 5150

<211> 470

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H8

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naggcagatca aatgatgctt gttcgatctg 120  
tatttcgata tcagttgcga nctctgtct cgggtggtct gcaatcggct tcttgctatt 180  
cttcattatc tgntgcttca gctgaagctg agangactat cagagaangt cccagaancn 240  
attggagtac agatgaaatc aagtctgtnt atgattctcn tcttcatgac ctctcttctn 300  
atggaactca ggttcataga catgttcata acttcaegga ngtaacancn tgtaccctcc 360  
tctccataaa gactgggtgt gtatgaagac ngatcatantg tcttcagtct cgagatatan 420  
cactggactt aaggcacana gaccatgtcn aagacgtgtc attgatgcgc 470

<210> 5151

<211> 638

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H9

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gtncncaaan nccccaanag ggccgcggtt cccgnggggc caaancccn cgggggttncn 120

aatnccnngg ccccnngggg ttttnccaa atncccaa atgtgggngaa attggggcng 180

gcccgttaaa acaaatnggg gggaaaaacc caaaactttg gggccctnc cggggccggg 240

aaggccaaac ctttcaatcc aatccttcaa ataatttggc aatccaactc ctaaccctt 300

ccttgggcaa tgaagaacgg gttggtncct gggcctttcc aagcaattaa catccgttaa 360

tgctccggga actactgttt tgattgccaa cacactaagt gtcaccaa atgggtggagat 420

cctggtgata aagcggggt tatccagact atattgttta tgctgggcat aaacacgttg 480

ctacaaacgc ttatcgggac aaggcttccc acggttatgg gaatatcctt cccgttagnt 540

ccttcccggt attgtcnata atcaagagat tacaacaatg gtcaantcga tcccganaaa 600

cagagaattc cgacatacta atgagaaacg gtacaaag 638

<210> 5152

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-007-Q1-E1-A10

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tgatgcgga gtcgtcagct tcttccacta acatcaatcc cgactaccac caccatctg 180

gccccttcga cccaatgta gacagttttg gggcgaaacg aatgagaaag catacacaga 240

gaagagctgt tgattacacc agcaccgttg ttagatatat tcaggctcga acatggcagc 300

gagactcaan ggatatgacc actctgcaac caacccagc tgcagcagtt gatatgcttc 360

ccacagttgc ctattcggat aatccttcaa caagctttgc tgcaaagttt gttcacgcat 420

ctctaaacaa gaaccgttgt tcaatcaacc gtgtantgtg g 461

<210> 5153

<211> 482  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-007-Q1-E1-A11

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aagcatgcc aatctcttct ctggttcagc taaaaatgct cgttcttct ctgaaggacg 180  
agccantggt gctgcagcag cggtttcggc gtcaggaaaa attcctttgt atgcatctaa 240  
ctttgcacag atcatcaggt tctggtgttg cttctaagag ttggctcact ggacgcttat 300  
gctctcctg ctgcaactta tatgattcaa gatcaatgan gttcttgcn gtnagatgga 360  
acganctttt attgctanca agcctgatgg tgtgcaaaga gnactgatat cagagatcat 420  
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aa 482

<210> 5154  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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anctgcctta atctcgagcg cangtggat cgcggtgga ggtttattca ttcctatcat 180  
gactatagtt gcaggggttg acttgaaaac cgcgtcaagc ttctctgctt ttatggtaac 240  
cgggggatca attgctaagc taatcagcaa tctctttggt ggtaaagcat tgcttgatta 300  
cgacttagcc ttgcttcttg agccttgat gcttttagga gtaagtattg gtgttatctg 360  
caacaagagt ttgcctgaa tggctcatca ctgttcctt tcgctgtgtt ccctcggtt 420  
ggtccaanct tgaagaant gtanaannt gagtcaant tggaaaactt tg 472

<210> 5155  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <400> 5155

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tttgtggaaa ccatagccag agattggaag gtcaatggat tccatgccct attgatcctt  180
ctcactctgt gttgcaggag aatctcgaat ggcattgttaa gagatgtcct ttacttaaac  240
aaactgtaga attgtctggt caacgatttt atcagaaggg tattaatgct gggaacgacg  300
aagaagaaga aaagatggga tcttgttctc ttgttactca gagatgaaga gaaatcctgc  360
tccatantat gagtgtttcn aaagtttcat caacttatta aagaaaaatt gaggatgttc  420
aatggcggta tttgtaaaga tatccgaaga ttcgtatttg tc                        462
  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
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gctctgtatt ttcgataatt ctctctgttt tgtatccttt cttattttct gtgaatctgt  180
ttttttatgg aaatttaatt caaaggctta ttagaggaag aaagaaagaa aaagaaaaaa  240
aaaaccactt ggagctatgg ctgttgaaga taacaagaac agtgaaagca aaaatcatca  300
agaggtagag cttcatagga acgacttagg cctcgaagat tcattcatcg caagaggtgt  360
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gatgataaat ca                                                              432
  
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<210> 5157  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-007-Q1-E1-A6

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 ggttatgacg tatacaagcc aacacttgct agatttgaga atgccggggg attggcggca 180  
 aattctccag ctgaagtgc gaaagatgta gatgttcttg taattatggg aacaaacgag 240  
 gttcaggctg aggatgtctt gtatggacat cttggagcgg ttgaagctat accatctgga 300  
 gcaactgttg tacttgcgct aacagtatct cccgcgtttg ttagccaact tgaaaggcgt 360  
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<210> 5158  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB22-007-Q1-E1-B11

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 tttgcttccc tgatttaaca atgagaaatt cttcatctat tgaagctgtt taccctactc 180  
 gacaaaaatc ttaccgggtt aacggagttc ctacttcggg ttggttcacc attgatttct 240  
 ccttgaaaga tctcaaagat gtttaactga tccgaggtat tttatctcgg tcagaaaagt 300  
 tcgatggtaa ttctaaccgg attatgacgg ttcaaagcgt atccacgcag atgaaaccat 360  
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<210> 5159  
 <211> 425  
 <212> DNA



<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-007-Q1-E1-B12

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aatataaaaa agtttgtaac tttcttggtt ttttaggtgt gtgtgttcag agaaaaggctc 240  
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ttgtgttttg ggtatttaac tcataaaagc cgaaggagta atataaagga tangttttgt 360  
ctttgtgtgc ctttttgaga ttgcatgaag aaaaaagcc tcantgtgtt ttgaangaaa 420  
cagaa 425

<210> 5160

<211> 432

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-007-Q1-E1-B4

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acaaagtatc tcttaccttc gggtttagat attctcttcg tctccgtcta tataatcattt 180  
ctcaaagtcg acttacgaat ttgactcagg agatatttcg tttgtgattt tgtaaggct 240  
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atcccttggt gggggattaa gntaccctt angngcgct tttgnggtc ctaaggngaa 360  
ctccaataat gaacaatgct tggacttcac nagggtttgc tcaaggccg angttgagca 420  
tatcnttctt gg 432

<210> 5161

<211> 429

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-007-Q1-E1-B5

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aaagcgtaat ctgggcttac gttagctctc acgaaccccc aaggatcttc natatatgtt 180

ttttcatttc ccataaaaat ctttcattat ctaaaaaata ttattatcgt atctttttttc 240

ttctatatat ttttctctct caatcttgat tcttgtttct tgagtattct ttgatgaatc 300

gtgaaatgac gtcaagcttt cntctcctga cgttcgccat atgtaaactg atcatagccg 360

tgggtctaaa cgtgggcccc agtgagcncc nccgcacccg gagccanaga tgtcgacggg 420

caantcaac 429

<210> 5162

<211> 419

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-007-Q1-E1-B9

<400> 5162

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tttcggagaa ggaatcacct aaaccctttc aaatctcttc ttctaccaa tatatttttt 180

tggatgaaaa aaacttctac caaattctca gattttattt ccttgagggt tttgtgtttt 240

ttttgcatgg tctaagttga tttctgaaat ttaagtatat cttggtttacg ataatataga 300

aaaaaattat tgggtgtttt gtgtgtttat aatttatctt gggatcaatga taatagtgga 360

cgacgagtcg gtgtcttaag ggtttacttt ttgtaaagaa aatttcctgt tgaataatg 419

<210> 5163

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-H6

<400> 5163

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gtcttcttcc atttcacgcg tgctgagttt gactctgcga gtcctcgtgt tctgagtcaa 120  
ctcgtgaggt cgacttttcc ttcgttgaac tttaaagtct acatttttag ggaagatacg 180  
gtgatcaatc tcatatcttc ttcgattaga ctagctttgg agaatccgtt gaactatgct 240  
cggaactatc tcggagatat tcttgatcga agtggtgaac gagtcattta tcttgactcg 300  
gatgttataa ctgtggatga taccacaaag ctttggaaac cggttttgac cgggtcacga 360  
gtcatcggag ctccggagta ttgtcacgcg aacttcacca gtattcactt ccgggttctg 420  
gcagacccgg ctt 433

<210> 5164

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G1

<400> 5164

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cggctacttc atccatcgtt ccttctcttt catgcccatc tccttcttct tcatccaaaa 120  
ccctttggtc ttccaaagcc agaaccttgg ctctacccaa tatcggtttc ctctcgtctt 180  
cttccaagtc tctgaggtcg cttactgcc a cgcgcgtcgg aaatggcgcc actggatcct 240  
cccttgccgc tcgcatggtt tcttcgtctg cgggtcaaagc ccctgtttct ctcgattttg 300  
agacatctgt cttcaaaaag gagaaagttt ctcttgctgg ttaacaaaga gtacattgtg 360  
agaaggaaga aagagactgt tcaagcaatc tcccaaaatg ctttcaaagg ggaataanca 420  
agatttggtg ttaantggct ggggggattt caaggacct g 461

<210> 5165

<211> 429

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-G11

<400> 5165

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agcggttcag atccgtctgc ttctactaaa gaatacatct gtgagtcgca aacactcggt 120

gaccggaaaa gacactgtga gaacgaagct gtggaggaac cagagccaaa acgaagactg 180

aaaaaagata actcacagag ttcagattct gtctccaaac ctggaaagaa aaacaaattc 240

gtagtacacg cagctgggtga tgttggtatc tgtggtgatg gatacaggtg gcgtaaatac 300

gggcagaaaa tggtgaaagg aaatcctcat ccaaggaact actaccgatg cacttcagcg 360

ggatgtccag ttctgtaaac acattgagac agcagtccga gaacacaaaa gcagtaataa 420

tcacataca 429

<210> 5166

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G2

<400> 5166

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gtggggcggac gcgtgggtgt aaatctctct ttgaagggtc ctaactcggt aatcgtaact 120

cacagtgact cgttcgagtc aaagtctctg tcttttagctc aaaccatggc tagtaacaac 180

cctcacgaca acctttctga ccaaactcct tctgatgatt tcttcgagca aatcctcggc 240

cttcctaact tctcagctc ttctgccgcc ggtttatctg gagttgacgg aggattaggt 300

ggtggagcac cgctatgat gctgcagttg ggttccggag aagaaggaag tcacatgggt 360

ggcttaggag gaagtggacc aactgggttt cacaatcaga tgtttccttt ggggttaagt 420

cttgatnaag ggaaaggact gggtttctta gacctgaagg aggacatgga agtgggaaaa 480

gatctcagat gatgtt 496

<210> 5167

<211> 444

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-G3

<400> 5167

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ttcgaatcgg acagagaatt tcttccgtag tttttcttgt aagcgaaaaa gaagttagt 120

tagctcgtgt gagagaaggg tgtaatgagc tgttttggtt ggtgtgggag tgaggatatt 180

cgcaacgcta ctgacactgg cccaaggcca gcgcataacc cagcaggtta caatggaggc 240

cactacaaaa gagctgatcc acccatgaac cagcctgtta ttcccatgca gcctatttct 300

gtaccagcca ttccagtggg tgagctgaga gatataactg ataactatgg tcaaagacct 360

tgatcggcaa gggttctaata ggaagattgt ttaatggtgt cctaaaaacc gtgtgcaact 420

gcaacaagaa cttgacccta gtaa 444

<210> 5168

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G5

<400> 5168

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aaataaaatt aattaatgtg agaaaatcaa ttcaaaaatt tggacatacg tatcatctga 120

gagaagaagg gtttggtgaa taccggcggg tggaaccgac ggcgatggcg aagaccggtg 180

ttttcgattc ggatccgacg gcgattgcta aagccaagga actgaagcgt gagatgaaga 240

agttgctgat taagatcgat gacgaagatg atttgggtgt tcagacgatt gatcagttac 300

aggacgcttt gtctgcgttg agagaagcga cgatgaggaa gatggcgaaa atctcccccg 360

ttagagaatg ctccaagact gtgtcttgn cctgaaggag ttccgttggt cctcccccn 420

aatgaacctt atgaagggat tccgtcgttt tgggctcc 458

<210> 5169

<211> 441

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G6

<400> 5169

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cgtaaatgca acgatcccat gctccttctt gcagggtgaa aaatgacacc ggagacggat 120

gctctcaaag ttcagatcct acctaacac cagtcattgc cctacacagt cacgaaggcc 180

aagtcgaaat cattgatcct gctagttgtc gtttccgtga ctatcacgtt aggggttatta 240

ttatatgttt tcaactcaaa ttctgttata tcttccggaa gtttgcttag tcggagatgt 300

aagctccggt acagcgtcct tctgcacgca gggagttcan ggacccgggt tcatgtgttc 360

gggtactggg tttagagtcg ggaaancccg ttttcgattt cngagagaaa cattacgcta 420

atccgaagtt gactcctggg t 441

<210> 5170

<211> 447

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G7

<400> 5170

aaaagagctc tgctttgaga tcttagccat taagttctct tgatgatgtc tggttcaaga 60

ttagcctcta gactaataat aatcttctca ataatctcca catctttctt caccgttgaa 120

tcgattcgac tattccctga ttcattcgac gatgcattct cagatttaat ggaagctcca 180

gcatatcaaa acggtcttga ttgctctgtt ttagccaaaa acagactctt gttagcttgt 240

gatccatcag ctgttcatat agctatgact ctagatccag cttacttgcg tggcacggta 300

tctgcagtac attccatcct caaacacact tcttgccctg aaaacatctt cttccacttc 360

aattgcttcg gggtaaaaag tcanggggtc ctcgcgcaaa gaaccctaac ctccgggtttt 420

ttccctcctt ggagtttcaa aagtcen 447

<210> 5171

<211> 436

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G8

<400> 5171

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gtanctggcc atggatgggt taccaatcca caacctagag gttacaccgg tactcaggat 120  
ggtgctancc aaactgctgc ctgtgggtatt gcaggaacat accctcaagt tgtttctctg 180  
accaacggag attacttgaa cgtttcttgg acaatcggag gcggacacga tggaaatgga 240  
gttggaccaa acacttgcag attcgcttgg tctctttccg atacctctac taccgatttc 300  
aatagccacg ttctcattga cggcctcaac tgctcaagct ggaaacaaat tcanatcttt 360  
ccaagtcaac actgcagtga ctactccatc tactgcttac ttgcaattta natngtccgc 420  
ctggtgaatg gnggtg 436

<210> 5172

<211> 434

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-G9

<400> 5172

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cttctaattct tcaangggat cgacgttaat ggcggtccg gcgccggagg angaatgtac 120  
gtgaaggtga tgaccgatga gcagtatgaa actctcagga aacagattgc tatttacggc 180  
accatttgtg agcgtcttgt tgagatgcat aaaactctca ctgctcaaca agatcttgca 240  
ggatggagaa tgggacgact atatgcagac ccaatgatgt catctttagg tcataagatg 300  
acagcctaga cagaaggtgg actcctacgc cantccaagc ttcaagantc ctgggaacgt 360  
tataattccg attaaaggca cngggaaaca acctaagcaa agcaagaaag atttaanaga 420  
cattaccaga aaga 434

<210> 5173

<211> 427

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-H11

<400> 5173

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cgaatccttg agagattgag agggacaagc gagttttgac ccaaggattg ttgacgggtct 120  
atattgaaca agtaaacaag gatgcgtaag tggatctgtt gtacatgtca aatagaagac 180  
tcaaatgaag agcaacaact gaaaagttca cagcagcaat ctgatgcaaa tcataagaat 240  
tcaaaaccag cacctgttgc aaaacatgag gttaagaagg aagctcttcc catcgaggtc 300  
cctcccttgt ctttgggatg aggtcaagga aaagactgaa aattttgggt tcaaggcact 360  
gattggtgaa gggctttatg ggagagtata ttatgcgaca ctaaattgatg gtgtggcggt 420  
tgctctg 427

<210> 5174

<211> 478

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H12

<400> 5174

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acactctaaa acaaaaccat gactttgttc catagactcg atctcatcga tccgtacacg 120  
tgtacaccac tcatcgctcg tgaaacctcc attggtgaac cttcatcatt gttcctaggg 180  
tttccttctt tcatcgacga agacattgaa gatctcttcg agttttcatc acctaatcct 240  
ctcgatctat tcgaaaccgt gacggatctg gttaagatta agaaatctcc gtcgtcttgc 300  
aagtacaagg tgattcgctg gagattagag ccggagtatc cattgaaagt atctttgtga 360  
ccgtgttctg atttggaatc aagtttgata nattggtaat cctaagagtg ataagaagta 420  
tacattgaca aaggagataa agggaaatgg tgaaaggaat ataaatggga aggcggan 478

<210> 5175

<211> 505

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H3



<400> 5175

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aaaacttttg aattagcttt acctccatct ccaccgtctt tagttccttc ttttaactac 120

aattccaccg cacgaagcgt cgggaatgat gtcagaacca acttcgatgt tcaacttttt 180

ctaaggaaac ctaaacacca aaaatcagaa cctgtcgtcg ttattcaaca acctcagatt 240

caaccgcaaa atccaagtgc tcgttggtct acttctgata ttctcagact aatggattct 300

ctttctttac caggaaacga agatatttac tcttgtcttg ccaaagaatc agccagagaa 360

aacgatcaac gtggagctca cgagctacaa gtgcatatca tgaaagtcca agtantaaga 420

cccacgatta actttaanca atcgtcctcc ttgggatgca tgtttccgtg tggggcgctt 480

aagatattac acgccaagat gttcc 505

<210> 5176

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H4

<400> 5176

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ccggtctcgt ttacttcaaa caagggttta ggggtttcat ctaccacttt ctaccaatgc 120

aaagcttgta actttgaggt atacatggct gcttctgac aacaccggtc tcgccgtcac 180

gacgagagct cttcaagacc caacaagaag aagaaggtaa gcagaaacc agaacaat 240

ctcctcttca atctcaattc atgctccaag tccaaggacc tctcagctgc attagcactt 300

tatgatgcag ccatcacttc cagtgaagta cgtctcaacc agcaacattt tcaaacgctt 360

ctgtacctat gctcaacttc cattactgac atatctctc aatacttgcc aattgaccgt 420

ggttccaaga ttt 433

<210> 5177

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-H5

<400> 5177

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tcacctaaac acaacttctt gaaaaccaat ggatcaaadc gaagcaatgt tgtgcggcgg 120  
aggagagaag acaaaagtgg cggttactac gaagactttg gcagatccat tgaattgggg 180  
tttagcagcg gatcaaataa aaggaagtca ttagatgaa gtgaagaaga tggcgaaga 240  
gtatcgtaga ccagtcgtga atcttggcgg agaaacactg acgatcggac aagttgctgc 300  
catctccacc gtaggaggca gcgtaaggt tgagttagcg gagacttcaa gagccggtgt 360  
gaaagctanc agtgattggg ttatggagag catgaacaaa ggtactgaca gttacgggng 420  
tca 423

<210> 5178

<211> 485

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-006-Q1-E1-F9

<400> 5178

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tncgttttgg ttttnccttn ggattcaaaa gtcctctta aatcctggta aatcaacaat 180  
ggcccgccac cactgagaat ctccctcaac tcaaataccg cgtcgatggc cttactgaga 240  
tgagtgagag tgagaagagc ggattcatca gcctggtttc acgttacctg agcggtgagg 300  
cacaacacat tgagtggagt aagatccaga ctccctaccg tgaaatcgtt gttccctacg 360  
agaaaatgac cctgtctccc aagatgttgc cgagaccaag aatctgttgg acaaaaacttg 420  
ttgtgttgaa gcttaatgga ggtcctggga acaacaatgg gatgcactgg gcccgaaatc 480  
cgtaa 485

<210> 5179

<211> 444

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-005-Q1-E1-E8

<400> 5179

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aattttctga gttggattag ttggttggt aagagatgga tccggatacg gtgaagtcga 120  
ccctctcgaa tctggcattc gggaatgtat tggcggcagc tgctagagat tataaaaagg 180  
aagttcttgc aaatgaaaag gcacaaggat caagacctgt caacgaggaa gttgatcttg 240  
acgaattgat ggatgatcca gagctagaaa agnttgacag cagataggat tgcagcactc 300  
aggagagaaa ttggaaaaga gagaagcatt caaaagacaa aggacatggg gaatacccg 360  
gaaattaacg aaaggcgact ttcttgggga anaagtccca aaggagttga aaaagttata 420  
tgtcacnttc aacacaaagg agtt 444

<210> 5180  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-005-Q1-E1-F1

<400> 5180

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaaagactct tncntnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnaga tggggaaagg tgagagtga cttgancttg 300  
gtctaaggct gagtcatggc ggtggaacng ggggcaaaga ttggtaaatc aagtgggtgn 360  
nngngcnttg gggaaaacgt tgnaaggctt tgacggcaaa gatttcctcg gtt 414

<210> 5181  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-005-Q1-E1-F11

<400> 5181

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tatctgaatc tgcattctgga agcgtgattt catcatcatg tattaacccg cttcatcttc 180  
cgcttcttcc tccatcatcc gagctgcttc ttctcgtctt tcttctcttt tctctttccg 240  
atcgggttta nctccctccg ttcatctac ttctccgtcg tctcttctcg ctgtagatc 300  
ttttggtanc atttccctcg ctttccgtcg ctgggagcna ttctttcac tcgaaaccat 360  
ctccgtttcg cttcacctct nagataagag gctgtttctc cagtcttag 409

<210> 5182

<211> 452

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-005-Q1-E1-F2

<400> 5182

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn agatatagat 240  
cttaatttgt ccttagatga gttctttagg agatatacta gtgaggataa cgagagcttt 300  
tcgaagantc ntgaagaang gtaaataaaga aagaangaaa ggagaaatta tggntttccc 360  
cctttaaagg tgaaaaagga ngatggtaaa tccaattgag ggatntnaaa gaagaagata 420  
aggattacag attgggtaat ngtacatcct ga 452

<210> 5183

<211> 435

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-005-Q1-E1-F4

<400> 5183

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atattctaag gctaacaaca atgtacctgc gactaggaat caaaactcta gctccaattc 120

gcattacacg agtatgtacc agcctgcac catgcacaggt tatgcagctc agggttacta 180

cgacagagtg tctccaaaca agtcatatgg tcagtatggt agcacgggtga ggtctggtat 240

gggttatggt tcttctggat atggttcaag aacaaatgaa agaggatggc tcaatacaga 300

caacaaatat agaagccggg gaaggggtaa cagttacttc tatggaaatg agaacattga 360

tggcttgaat gaactaaaca nggggcccta gagccaaggg cacnaatggc acagaagaag 420

ttanctcaaa agaag 435

<210> 5184

<211> 417

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-005-Q1-E1-F8

<400> 5184

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tttcaacgat gtgaatctct ctctctttcg gggttatattt gtttcccgat atggtttaga 180

atattgtgatt taaatggaag ctgacgtgtc aatttcctga aaaaaccctt atcgcgaaat 240

tttccagatt agcaaaannc acaagattga aacttttttc gatttggttg gagaagannc 300

acggtaggaa cgacgacgat gaatcgtgct ttggggccac gtttaaattgt ttgtactgtt 360

tctgtttan cttcangcan agttnatttg atgaggaata acatnactct ctctttt 417

<210> 5185

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-005-Q1-E1-G1

<400> 5185

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 gccgagtatg cgacctcttc accggcaagc tctgctgcgc catcctctgc tcttgctaag 180  
 gatgagggga aaaagaccta tgattacggt ggcaaagggt cgatcgggcg tgtttgtcaa 240  
 ggtcatcggg gccattgtca tgtgagattc gaggatcagg aaggattgcc tccgatnatg 300  
 acatctcctt gaagggttaan gattaacca aaaagggtg gtggctttta ggtgtcccaa 360  
 tcaatttggg tcaaaatggt ctttaaggaa aattgcta gggatggtaa tgaaagggtc 420  
 ttgtccgttg gaaaggnaag gttccaaaca ctggg 455

<210> 5186  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-005-Q1-E1-G11  
 <400> 5186

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 ccacctgaa caactcatca gcggtaaaga agatgcagct aacaatttcg cccgtgggtca 180  
 ttacaccatt gggaaagaga ttgttgacct gtgcttagac cgtatcagaa agcttgctga 240  
 taactgtact ggtctccaag gattcctcgt cttcaacgct gttgggtggag ggactggatc 300  
 tgggtcttga tctctctctc ttgagagact tctgttgact aagggaataa gtccaaagtt 360  
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ggtcgaaaac aaggtgacac cagctaaaga tgaagtcag gggaggctga tctcaccttt 180  
 gagcgtatatt gagaaaagg tagatcacag agctgttcat tccaaatgg acaacctcga 240  
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 aatccaccta cgagtttgcc ttgaaggagg ttaccatgta atggacgagt caactctgta 360  
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 a 421

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 <223> Clone ID: LIB22-005-Q1-E1-G2  
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 acatggagga ggtaaaagat gtgcctttca aggagatgat ccttgctcca agagtgttca 180  
 cggaggtacc aatttctgtg tggcacatgg cgggtggaag agatgtgcgg tccccgaatg 240  
 cacaagagat gctagaggaa gaactgattt ctgtgtcaga catgggtggag gaaagagatg 300  
 tcagtctgaa ggctgtggca aaagtgtcga aggtagtacc gacttttgca aagcacatgg 360  
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gtcgattact aatctagcgc tctctttttt tctactcgat gacttatcac gaagaagacg 180  
 atacagtttc tgaatttcga gttagagttg aagaagatgg agttgataaa ttaggtcatt 240  
 atgttaaact tactgaagat ttcgaagtac atcgacaaga aacagaacaa gaatccttca 300  
 tcatcaaccg tcttcctcct tccttcaatg tgggacaaga aaaccgattc gggttggggg 360  
 tttgggattt aaaaaccctg ggncctttt cctcnacnt ttttcaaaan nggcctttt 420  
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<210> 5190  
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 <212> DNA  
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<223> unsure at all n locations  
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 ttcgggatcc ttgtgaagtt gttanaaggc aaaccttcat acttctctca aggttactac 180  
 agagagacta cgtgaaatgg agaggagttc tcttccttcg attccttcta tcgctagtgg 240  
 atgaatctga aaagatacgt cgacttgcag actttttatt tggnagcatc cttaaagtaa 300  
 angcgccact tctaacctta caacagtttc ttggaagcca atttatgtcn taaacgactg 360  
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<210> 5191  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-005-Q1-E1-G7

<400> 5191

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tctgctgtat cttggacgag actatccaaa cggagcagnc tanttcaaaa ggcgtctgaa 180  
naangttttc cttanaaaca annatgtgaa ggacccatag aagatcaagg aacttattga 240  
aaggggcaaa tttgtaactg aaagaactag aagcattata cttccttagg aaatacagan 300  
ctatgaaaca acgcnattac tcagatacca acaaaactaa atgatcagta ttactatcat 360  
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tgtcaan 427

<210> 5192  
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<212> DNA  
<213> Arabidopsis thaliana  
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ctggagaatc ttgacctcag aggggtgcaga aacctgaggg atgaaacctt gacagctgta 180  
tctcatctgc caaaactgaa ggttttactt cttgatggcg ctgatattag cgacacaggg 240  
ctttcgtacc taaaagaggg agttttggac tccctagttt ctttatctgt cagaggggtgc 300  
agaaatttaa ccgataaagt tcaaggtcaa cttaantttg acgggttctc aaaaactggg 360  
cgtttgcggg aactccaact ttgtcctaact cctcccaaact ccaacnggtg ctggcaattt 420  
tgtccaaca aaatcctggg 440

<210> 5193  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-005-Q1-E1-E7  
<400> 5193

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catctttcttc ccaaaaccat tcatttgtct ctaggtctct ccttctcctt actctacttc 180  
cagtttccct tgcttgcttc gcctttatcc tccaatggcg angcgggtggc ctgcgcgatc 240  
ctgcctctgc ttctgttcgt tctctacgt cggttcctgg cggctccgat ctcaatcacg 300  
aagtctttcc cggcatggag actgtttcat ctgtctcccc aaagtctcac caatctctct 360  
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agtttggtgt 430

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<211> 407  
<212> DNA  
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<223> Clone ID: LIB22-005-Q1-E1-C11  
<400> 5194

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cttttgctcg tgggttatgt aaagtttcca cctttcgtct tctttctgat ctgtgagcaa 180  
aaatgggaca acagcaatca aaaggggaat tgctgtatca gcaagttagt tatggtaact 240  
ctgaaggaat tcgagctctt catcgagatg gtggagacct tgagtggatg gatagagaag 300  
gaaaaactcc gttgatcttg gcttgatga actccgagct atttgatgtt gctaagactt 360  
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<210> 5195  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB22-005-Q1-E1-C12  
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gcgacagcat agttaatgtg gagaaggatg aactgctcga cgaagcggcg gaggaagaat 180

ttagaggctc cgattctgtg ttttagcggcg gcgatggcgg tggagcggat gatgatggcg 240  
 gcgagtgttc atcggaggct actaaagtgg agctaccgga ggaattggcg aaaagtgttg 300  
 tgattctgac gtgcgagtca acagcggatg gtggatcttg cgatgtgtac ttggttggtgta 360  
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 <223> Clone ID: LIB22-005-Q1-E1-C4  
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 atggagagat ctatgttcag ctcaaagaaa gtggttagagg ttgcgatgtc tttttggtgc 120  
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 gccgaagagc atcagetaag aaagtcacag ctgtgattcc gtattttgga tacgcaagag 240  
 ctgatagaaa gacacaaggg cgtgaatcta ttgctgccaa attggttagca aaccttataa 300  
 caaaancccg gtgcaagata agggtcctgg gcttggtatn ctcaatcaaa ggacaatcca 360  
 tgggttaatt tgacatacca atgggatnat gtccaantgc caacctggtg atacttgatt 420  
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<210> 5197  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 cactcttca cacactctc accttctcca tctcctcac tcacaattca accgtctctt 180  
 ctctctatc tccttcgctc gcttccctct aacaaccatc aaatacactt cnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngca 300  
 agtactttctc tcacctaacg gtactgggtg ctgtgaagtc tgatgagaga ttccgttgtc 360  
 gctacggcgg gttacgactg atagtctggg gattgagggt tgatactgtg aagggaagct 420  
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<210> 5198  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 gaagatgtgc aagtggctcc acctcaaact ggtgagggtc ggatcaagat cctcnacact 180  
 gctctttgtc acaccgacgc ttacacttgg agcggcaagg atcctgaagg tctctttccn 240  
 tgtantctag gtcattgaggc tgctgngatt gttgagagtg ttggtgaagg agtaactgaa 300  
 gttcaaactg gagatcatgt tatcccttgt tatcaanctg agtgctcgtga atgcaanttt 360  
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 atgatgaatg accgtaa 437

<210> 5199  
 <211> 415  
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 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-005-Q1-E1-C9  
 <400> 5199

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 tccaaccacc accgtcactc ctctcccggt tgccactcca ccaccgccc caactcccgc 180  
 tccgaccacc actccaccac ctgccgtctc ccttgcccc acctcttctc ctccgtcttc 240  
 agctccttct ccgtcgtctg atgcccctac cgcttctcca cctgcaccgg aagggtcccg 300

agtttagcccc ggcgaactag ccccgacacc ttccgatgct tccgctcctc aactaacgcc 360  
 ggctttaacc aacaaaagct ttcgtcgtcg gttcacttgt cgccgcgatt aatta 415

<210> 5200  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-005-Q1-E1-D12  
 <400> 5200

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 accaatcacc aaggagcagc ctctccacc tgctccggac cctaattcca cctaccctcc 180  
 tccgtccgat tttgattcca tctcgatccc tccgttagat gatcatttct ccgatcagac 240  
 tccgattggt gaactaatgt ccgatctggg gtttcccgat ggtgaattcg agctcacttt 300  
 cgacggtatg gacgatcttt acttccctgc tgagaatgag tcgttttctca tccctatcaa 360  
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<210> 5201  
 <211> 442  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 gattctatgg aaagcttttc gaggatgaga cagtctataa ggaggaatta ttctgggact 300  
 gatcatcacg gggcagcagc agattatgac gatcagacag aaacaaaaag tgataatggt 360  
 aacaanggtt ctcaatcaaa tcttccctgt tggtgctgct gaaagtaata ttaatggaaa 420

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442

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<211> 444  
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aagagaagat tgctggctga aatcgaactt gggatcaatcc ttaaggaaga agtggttgatg 360  
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<210> 5203  
<211> 498  
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aaggccaatc acaagaaagt catgggacnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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catgtcgatt caaacaaaaa cgaatgcaat ttgttctgtc ttgattgtgc tggaaatgcc 360  
ttttgtcttt actgtttagt caaacataaa gancatcggt ttgttcaaata acgaaagatn 420

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<210> 5204  
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<210> 5205  
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 catatgggaa agtagaattt tangggagat tctgcttang taagaaactg cgttttgaan 360

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<210> 5206  
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<212> DNA  
<213> Arabidopsis thaliana

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aaaattgtgg acaatgaaac tattagtgtt gatggtaagc tcatcaaagt tgtctccaac 240  
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ngagtgtttg ttgatgggcc aggagcaagg aaagcatatc caaanccgga gcctccaaaa 360  
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gagcaaagac ta 432

<210> 5207  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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agaatttcaa tttctcttgt aaaaccctaa attatgtaca gcaatttcaa ggaacaagcg 180  
atcgagtacg tgaagcaagc ggttcatgaa gacaatgctg ggaattacaa taaagctttc 240  
cctctataca tgaacgcgct tgagtacttc aaaactcatc tcaagtatga gaagaaccct 300  
aagatcagag aagctattac ccanaaatc accgagtatc tccgtcgtgc tgaggagat 360



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<210> 5208  
<211> 417  
<212> DNA  
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aaaagatcat agagagttta taacatggct gctttggcgt gatcccgac ttgttcgcgt 360  
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<210> 5209  
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<212> DNA  
<213> Arabidopsis thaliana  
  
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acttgctgan cttctctcat atgctcttgt ctcaaaagca aatcctccca agaaactact 240  
cagattgaac agttggggaa tggagaaggg ttctcagttt tggcatcaga gattccatgg 300  
gaggatgata acatatggag cacatttgct ctttacctgt tctctctgca tattcctctc 360  
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464

<210> 5210  
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<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-004-Q1-E1-H5  
  
<400> 5210

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tgagcttgtc ttcgtagatt ggcttgctgg tgaagccaaa accaaaactt ttctctctac 180  
tctcaaccca tttggtgaag tcccggttct tgaagatgga gatctcaaac ttttgaacc 240  
aaaggcgatc acgcgatacc tagccgagca atacaaagac gttggaacaa atctattacc 300  
agatgatccc aaaaagagag caatcatgtc gatgtggatg gaagtagata gcaatcaatt 360  
tcttcctata gcatcaacac tcatcaaaga actcatcatc aatccatatc aagggttaan 420  
cc 422

<210> 5211  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-004-Q1-E1-H9  
  
<400> 5211

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agtaatggca agactcacga gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120  
nnnnnnnnnc gacaagagct atggaggcaa acttttcccg gggttattacg cccattcatg 180  
cccacaagtc aatgagatcg tgagatcagt tgtagctaaa gctggtgcta gagagacacg 240  
tatggctgct tccttggtga gacttcattt ccacgactgt ttcgttcagg gttgtgatgg 300  
ctctttgctt ctagacagca gtggaagggg agcgactgag aaaaactcaa accctaacag 360  
caaatcaact cgtgggtttg acgtanttga ccaaataaaa gctgaactgg agaaacaatg 420

ccctggaact ggtttcttgc gctgatgttc ctaaccc

457

<210> 5212  
<211> 488  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-005-Q1-E1-A1  
  
<400> 5212

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gaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaaacia 120  
caatggcgac accaggagct tcctcagcaa gagatgaatt cgtatacatg gcgaaactcg 180  
ccgaacaagc agaagcgtta cgaagaaatg gttgaattca tggagaaagt cgcgaaagct 240  
gttgacaaaag acgaactcac cgtcgaagaa cgtaatctcc tctccgtcgc ttacaaaaac 300  
gtcatcggag ctcgctcgtgc ttcgtggaga atcatttcat cgattcgaac aaaaaggagg 360  
agtctcgcgg taacgatgac cacgtttcgt tgatccgtga ctacaagaaa gcaaaatcga 420  
aaacgggact ttccngatat cngtgacggn atccttaaan cttctcgata cgaattcncg 480  
ttccccgg 488

<210> 5213  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-005-Q1-E1-A2  
  
<400> 5213

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ctaagaaatc tatggaagag cttgatagtg aaaagtcttc taaagatgat attgatgtta 180  
gactcaagtg gcttggcttc tttcaccgta gaaagcatca gtatgggaag tttatgatga 240  
ggttgaagtt accaaatggt gtgactacaa gtgcacagac tcggtattta gcgagtgtga 300  
ttaggaagta tggatgaagt ggggtgtgctg atgtgactac tagacagaat tggcaaattc 360  
gtggtgttgt gttgcctgat gtgcctgaaa tcttgaaaag tctgcctct gttgggttaa 420

cgagtctc

428

<210> 5214  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-005-Q1-E1-A3  
  
<400> 5214

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gcgacgggtg tggcgacggg gacagcgatc gacggttatg gcttcgaaga ctaaaactag  180
tttgtccgaa acaacaaata ctactactcc taccgggaaa tcatctccag caactccaag  240
aatagcaaan agaacagtta ataaatccga aactagtaat aataattctc atctactact  300
actccacatt cacgtctttc tcttgatcgt tctctccaaa ttccaaatct tccggttgag  360
agangatnac caangcttca actcctcctg agaaatctca agcgggnagt acaagcgggtg  420
aaaaggaaca g                                     -   431
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<210> 5215  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-005-Q1-E1-B1  
  
<400> 5215

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gcggacgcgt gggtgataat atgatggacg atgttcccct tgctcaacga tcttcaaattg   60
agcactatga cgaggctacg gaggatagct gcagccgcaa gctcgaagct gctgtttcga  120
aatgggatga gactgatgct atagtcgtct ctggtgccaa gcttacggga agcgaagtac  180
ttgataaaga tgcagtaaaa aaaatgtttg ctgtaggcac agcttctcta ggacatgtac  240
cagtgtgga tgtgggccgt ttttccagtg agattgctga agctcgtcta gcacttttcc  300
agaagcaggt tgagatcact aagaaacatc gaggggatgc aaacgttagg tatgcctggc  360
ttcctgcaaa gagggaagtt ttatcagcag tgatgatgca aggacttga gttggtggag  420
```

cattatcaag aaat

434

<210> 5216  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-005-Q1-E1-B12  
  
<400> 5216

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gggagaaaat ccgataccat ctgagatttc caacagtga attagatgt caacaggaat 120  
atccactgat ctacacgtcc attttggagc tctgaatttc tcaaaaacct acaaactctgg 180  
tttaagcaat cgaacggtgt ctttttcgag agtcgggtat gtcagaaca ggaaattgag 240  
ctgcagtgtt tccaacacag agaatgtagc tcctaaggat gatgaaagag gaaaggatag 300  
acctttggtt aagatgtgtg gcatcacatc agccagagat gcagctatgg cagttgaggc 360  
tggtgccgat ttattgggat gattatttgg ccacattcaa aacgatccaa ttctc 415

<210> 5217  
<211> 427  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB22-005-Q1-E1-B3  
  
<400> 5217

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gcgtgtgctc tctccaaagc tatagcagag ggcattgctc ttggtactga tataggcgag 120  
gcgaatctgc tcaaacgtta tgaagcagag agaaaacctg caaatatagc aatgatggcg 180  
gttttagacg gaatccagaa gatctactcg ttggatttcg gaccgctgaa tgctctaaga 240  
gcagctgcat tccacggggc tcaactacatt tcgccgtta aaaagcgtat catatcttat 300  
gcttcaggag agcaatcttt gccgctatct tcttgaagaa tgccaaggat tggtcgcttt 360  
gttctcaaaa tactccgcat catctcctcc ttgtccctaa atagaaattt aatgggggact 420  
gaaaaca 427

<210> 5218

<211> 479  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-005-Q1-E1-B5

<400> 5218

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cctactactt caaatccaga ggtttcgata cgtgaaaaaa aaaacctggg acgtatcgcc 180  
caaatcattg gtccgggtact ggatgtagcc ttccccccgg gcaaaatgcc taatatttac 240  
aatgctctgg tggttaaggg tcgagatact ctgggtcaag aaattaatgt gacttgtgaa 300  
gtacagcaat tattaggaaa taatcgagtt agagctgtag ctatgagtgc gacagatggg 360  
ttaaagagac gaatggacgt ggttgatatg ggaaatcctc naagtgttcc agtcggcgga 420  
gcgactctag gacgaatttt caacgtgctt ggggaacccg ttgataattt agtctnata 479

<210> 5219  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-005-Q1-E1-B6

<400> 5219

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ctacttcttt caaacaatgt cgtccagata ttgatcagtg gttgcttttt ctttcgagga 120  
acgggattaa ggagcttggt ctttaagttag gtgaaggaga attcagggtt cctgcatgtc 180  
tctttaactg tttgaaattg acctgtttgg agttatgtca ttgtgagttt gatccgcctc 240  
agtatttcaa aggggttttcg tatctgaaga gtttaaacct tcaccagatc cttgttgctc 300  
ctgagggttat tgaaagtctg atctcaggat gtccgcttct cgaagttcct gtcttggtcta 360  
actttgacag ttgggttttg agtataacaa ctccgaatcc catgtacttg taccnagacn 420  
ggcgaattca aagac 435

<210> 5220

<211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-005-Q1-E1-B8  
  
 <400> 5220

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cggcgaagct tcagatctac ttttccccag ctacgtatgg agacgggtga ttctcggaac 120
aaattgcatt cccggttacg tttatgggaa ttccccgac agtacatcat cgagccagct 180
gatggctcag gctcttcatg tttggatatt angtcgtggt gatgcttcca tgaagctcat 240
cgatcaagtc ccagaaagca attccgtgcg tgtccctaaa atccgttcca tttttggtgt 300
ggttgggatg ttgaagctcc ttgcaggatc atacttggtg gttgtaactg agagtgaacg 360
tgttggatcg tttctggggc atcctatatt caagagttac aacgcttaag gttcttcctt 420
gtgatattca cttaaaa 437
  
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<210> 5221  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-005-Q1-E1-C1  
  
 <400> 5221

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tttcccctgc taagtctaca tccttcaaga acgttagctg cagcgctcct cagtgtgaagc 120
aggtacaaaa cccacgtgt ggagcacgag cgtgctcttt caacctcacc tatggaagct 180
cctccattgc ggctaacctc tctcaagaca cgatacgtct tgccgccgat ccgatcaaag 240
cctttacatt cggatgcgtc aacaaagtcg ccggtggagg aaccatccca ccacctcaag 300
gcttggtggg cttgggacga ngcccacttt cactcatgtc acangtcaa tctatttaca 360
aagtccactt tctcttactg tttgccaagt ttcaaggccc ctgaacttct ccggttctct 420
canactccgg ccctaactcc 440
  
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<210> 5222

<211> 475  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-004-Q1-E1-H12  
  
 <400> 5222

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 ggggattggg gtgaggaact tgacattaat gttgatggaa tggagaacat ccttctctct 180  
 tctctaccc tcatttccac cgccgatgac ctagacgacc tctctctctt ccaccgcgcc 240  
 gtcgtctctt cctccaccaa caacaaccgt cgtctcatct cctctctctc aaatccaccc 300  
 ccaaagatcg ctttctctt cctaacaaac tccgatctaa ccttcttacc tctctgggaa 360  
 agcttcttcc aaggtcacca agatctctac aacgtttaca tccacgcaga ttcaacctcc 420  
 tccgtctctc ctcttctcga ttcttcatca atcaacgcta aattcatccc gggga 475

<210> 5223  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-D4  
  
 <400> 5223

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 tcntgcttac tgttttcact ctttgatgc tttgttcagg ggtagggca cagctaagcc 120  
 ctgacattta tgctaaatcg tgccccaatc tagttcaaat tgtccgtaaa caagttgcca 180  
 tcgcctgaa tgccgagata cggatggctg cttctctcat tcgtcttcat ttccacgact 240  
 gctttgttaa tgggtgtgat gcgtcgttat tggttgatgg agctgacagc gagaaaactcg 300  
 cgatcccaaa cattaactct gctagaggat ttgaagtaat tgatacaatc aaagccgctg 360  
 tgggaaacgc atgtcccggt ggttgttcct gggccgaaaa cctcaacttt gccgccnga 420

<210> 5224  
 <211> 486  
 <212> DNA



<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-D5

<400> 5224

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gatcgagata aatgtaactg gttgagagaa aagattgaga caccaactcc ttggcgggtac 180  
aacagggagc gccgtgaggt gattctcgat cggcttgcac ggagtactca gttcgagaat 240  
ttcttagcta ccaagtggac aacagccaaa agatttggac ttgagggagg agaataatta 300  
attcctggaa tgaaggagat gtttgacaga gcagcagatc ttggagtaga gagtattgtt 360  
attggaatgt ctcacagagg aagattgaat gttctgggta atgttggttc gaagccactc 420  
cgtcagatat ttagtgagtt cagtgggtgt attangcctg tanatgaagt tggctacact 480  
ggaact 486

<210> 5225

<211> 435

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-D6

<400> 5225

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gatgcatgcc atcggtgggt ttccttttca tgcgagggga ttaagtanga cttactacat 120  
gatgagctgt cctttcgtg aacagattgt gaagaacagt gttaacaatg ctcttcaagc 180  
cgatcccact ttagccgctg gtcttatccg tatgttggtc cactgactgtt tcatcgaggg 240  
atgtgatgag tcaattctgc tanattcaac gaaagacaac actgcggaaa aggattcncc 300  
tgcgaatccg antcnaagtt ggtaacaaga ttatccattg attcnaangg gnaaaatcna 360  
gaatanatgt tcaaagantt tgttncaagg nccagttaaa nttgccaatg gntggcaaaa 420  
natgcggtct ttttg 435

<210> 5226

<211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-D7

<400> 5226

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naantttttt cgcacggtt tcttcctttt gctactagct ctctctctt ctccgaaaat 60
ggcgttacaa aacaaagaag aagagaaaaa gaaagtgaag aagttgcaaa agagttactt 120
cgatgttctc ggaatctgtt gtacatcgga aagttcctat aatcgagaat attctcaagt 180
cacttgacgg cgtaaagaa tattccgtca tcgttcctc gagaaccgtg attgttgttc 240
acgacagtct cctcatctct cccttccaaa ttgctaaggn actaaacgaa gctangttag 300
aagcaaacgt gaagggttaa cggagaaaact agcttcaaga acaaaatggc cganncccnt 360
tcgccgtaat ttccggntt aaatncnct ccanccctt cccaaaattt gtccaaan 418
  
```

<210> 5227  
 <211> 424  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-D9

<400> 5227

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agaatctatg gttgctcgag tcctcaattc gctgcaaaag caattgaatt agcagctaaa 60
gaactcaaag atgttgacag aggaaaagtt aaccaggcac atcttgatcg tgccaaggca 120
gccacaaaat ctgcagttct gatgaatttg gaatctcgga tgattgcagc agaagacatt 180
ggtagacaga tacttacata cggagagagg aaaccagttg atcaattctt gaagtcagta 240
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acaatgggtt cctttggaga tgtgttggtt gttccgagct atgacacaat aagcagcaaa 360
tttcgttgaa gcaaaacaaa caatttgcca aatcaacaat attttgggac ntgttaaata 420
aaga 424
  
```

<210> 5228  
 <211> 432  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-E2

<400> 5228

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tcagatgaca gatggagttc ctccgccacc agagcaaagt tcgtagacc accgggattg 120  
acgagcttga gagacaagaa agagatcgat gattggcttc cgataacttc atcgagaaac 180  
gcgaaatggt ggtactccac gtttcacaac gtgactgcc tgggtggagc tggcgctcctt 240  
ggtctccctt tcttcatggc ccaactcgga tggggaccag gcatagcagt cctgatacta 300  
tcatggntaa taacacttta cacgttaagg caaatggggg anattcatga naatgggtcc 360  
cgggaaaacn ctttnttccc aacaangaac ttggccattt cncatttggc aaangtcttg 420  
gcctttaaaa aa 432

<210> 5229

<211> 425

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-F12

<400> 5229

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gttcgagttc gtgacaatng gctacgacaa ttacatggaa gtggngaaaa aaatccgcaa 120  
agtcgtcaaa tttcacagct tgattctctc tcaacccaac cacacaatcg caatctctct 180  
tctagacacg ctgctcgtc gtctaggtct cggttcaag caacacgaac caggtgcttt 240  
tctcctcaag ttcccacacg tgtttgagat atacgagcac ccagttcaaa gaatcctcta 300  
ttgtcgatta acccgtaaag ctttgatna aatccgtcac gaacacgaag ctgttctcga 360  
ccaaataccc gacgccgtga cccgggttga ggaaactcgt tatgatgtcg aatacgggtc 420  
ggttc 425

<210> 5230

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-F6

<400> 5230

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aaccgnangg nncgctgcc accaccggtg anacatgtgc cggagtcagt tctgccggct 120  
aaaccaccaa agaggaacaa ttatgcattc gcgtgtgcta tcttagcttc catgacttct 180  
atctccttg gttatgatag aggagtgatg agtggagcaa tgatttatat gaagagagat 240  
ttgaagatta atgatttaca aatcgggatt ctcgctggaa gcctcaacat ctantcactt 300  
ataggatctt gcgcgcgcgg aagaantctt gactgggatt gggccggcgt tacactatcg 360  
tgttgggtgg gagnetatatt ctcggggngc tctccttaag ggatgggtccc taactaagct 420  
ttctca 426

<210> 5231

<211> 429

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G1

<400> 5231

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gtcgtgtttt ctctcttccg ttctcttctc tggcaagtct gcttcgtacg tactctctct 120  
tcattcccac ttcacacttt ctacttttta ccaaatecta tcttcaactc taattcccac 180  
catttctgat ccacgatttc aaattgggtg gttggaagca gtgtttgtgc tgtaattgga 240  
tctgatctga tcggattcga ttgaaatttg gatcccatgg agaagcacga ggaggaaaac 300  
ggctcttgca aggcggaatc tgttgatggg agccttgatg tttgggagtt gtcanaattc 360  
tgattcctcc tccgctgatc acttgctcgt taagggtcaa gggatcttgg gaagtacggt 420  
gattggaan 429

<210> 5232

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G11

<400> 5232

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aagaaccgtc aaggacttaa tcgcagcagg tgctgctggt tgcttccttg aggaccaggc 120  
atggccaaag aggtgtggac atatgctggt caaagaggtc atacctgcgg aggaacacgc 180  
tgctaaaata gcatcagcaa gagacgctat tggagatgct gacttttttc taatcgctag 240  
gactgatgct cgtgcacttt ccgcaaaaac aggactttca gacgccattg accgtgctaa 300  
tctttatatg gaggcaggag ctgatgcttc ctttgttgag gcaccgaggg acgatgacga 360  
gcttaaggaa atcggaaggc gcacaaaang ttacaagact gtgtaacatg cttgaangtg 420  
gacgcacgcc aattgcataa cncctgatga acttaaagaa atnggt 466

<210> 5233

<211> 441

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G12

<400> 5233

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cgggtgggggtt tcatggttgc tgaagataac tcgagaganc gagtgcaagc gaaacaaaga 120  
gaatgcgata gtgatactgc atactatatg tttcagcgac aggacaaagt ggaaggagat 180  
caaagaagag gagaatgctc atggaacgat aacaaagctt tcgctgaag gaacttcaag 240  
ggcgcagagg aaagcaaacg ggatattgga cagactgaga aaagctatga atctcactca 300  
tacagcctga gaaaagcctt gaaatctgca atgtaaatta cctaaaatct tggtttctttt 360  
ttttacttta tttggctgta agaatttttg taaattattc atatcttang atctgaatgg 420  
gtaatgggtt cgtaaaaaa a 441

<210> 5234

<211> 472

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G4

<400> 5234

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attctctgac aatcagaaaa caaaaaaaaa tcagaacaac tcttatcttc ttcacgagac 120
tgactaaaca atcatagatt tttccgtttt ttgggtttcg tctggtgtta ctctctcctt 180
ctgagttatg gtgaaataat ggcagcagct gaagcaagag cagtgtggca aagaacagtt 240
aatcgttgct ttgtccaaga agacgctaaa agagctccca agttaactta ttgccaatca 300
tcttcctcct caactgcttc ttcaactaag caagtggaag tttctgggtc ttctcctcga 360
gtttctgttg aaccacggga ctcaatcatc ttgtgcaggn ttcaaggctc ttctcga 420
nccgaatttt cctgatttgt taccacaac ancagactgt ggagtcaccc ca 472
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<210> 5235

<211> 452

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G6

<400> 5235

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agctctagat tcagataaga acaatggcga ttccgatgcc tactcgccag ctattcatcg 120
acggcgantg gngagaaccc atcttgaaga agcgaatccc gatcgtaaat ccagctactg 180
aagaggatcat tggatgatt cctgcagcta caanggagga cgtggatgtt gctgtcaacg 240
ctgctcgaag agcattatca aggaataang ggaaagattg ggccaaaagc acctggagct 300
gttcgtgcta agtatttacg tgctattgct gctaangtan atgaaagata ganggatctg 360
gcaaagctct aggcgcttga ttgtggtaaa ncantggatg aagcantatg ggatatggat 420
gatgttgcn g gatgttttga attttatgct ga 452
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<210> 5236

<211> 428

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-G8

<400> 5236

agttctagat cgcgagcggc cgtccttttt tttttttttt ttcaaagggtc ttcaggctaa 60  
actttctgaa caggaaggta ttaattcaaa gcttgcggaa gaactcaagg agaaggaact 120  
tctggaatcc ttatcaaaag accaagaaga gaagctgaga actgcaaagt agaagttggc 180  
tgaagttttg aaagaaaaag aagcgcttga agcaaatgta gcagaggtca caagtaatgt 240  
agcaacagta acagaggtct gcaatgaact agaagagaaa ctgaaganct caagatgaaa 300  
atcccccaa aacaagatgg cctnctttc tcaagctttg tcaaacaact ctgagcttga 360  
acagaaactg aaatcnctgg aggagcttca ttctgaanct ggntctgcag cancagctgc 420  
taccctaaa 428

<210> 5237

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-D10

<400> 5237

tttccctcgc nctcaccgg tcngancacn cgggcgcgcc acgcgtccaa agatattaga 60  
acttgcaaaa aatggcttcc aaggctttga ttctgttang tctcttctca gttcttctcg 120  
tcgtctccga agtgtctgcc gcaaggcaat cgggcatggt gaagccagag agtgaggaaa 180  
ctgtgcaacc tgaaggttat ggcggtggcc acggaggaca tgggtggcac gnggggggag 240  
gaggccacgg acatggagga cacaacggag gangggggcca cggacttgac ggatacggag 300  
gaggtggagg aactatgga ggaggtggag gacactacgg aggangtgga ggacactacg 360  
gaggangtgg aggacactac ngaggangtg gaggacacta cggatgacgt ggtgncggac 420  
acngangtng aggacactac ggangttgtt g 451

<210> 5238

<211> 483

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-H8

<400> 5238

ccggtaagga aatcgcggggt cgacccacgc gtccgaatcc attaatcatc atcttttctt 60  
cacagagagg aaaaaaaaaa aatggcgaca gattctcaac caaaccaaaa gctaacgctt 120  
ccgttaaaaa caagaatcgc tctcacggtt atctccacca tgaccgataa cgctcaacgt 180  
cctgacggaa ctatcaaccg ccgtttcctc cgcctcttcg atttccgtgc tcttcccaat 240  
cctaaacccg tcaacatcgt ctccacctcc gatttcgctg tggatcaatc ccgtgatctc 300  
tggttccgat tgtacactcc acatgtctcc ggcgataaaa tccccgctgt tgttttcttc 360  
cacggcggtg gtttcgcttt cctcagtcct aatgcgtatc cttacgataa tgtatgccgg 420  
agattcgcta ggaaattanc tgcttangtc atctccgtta actaccgtct cgctccggga 480  
gca 483

<210> 5239

<211> 475

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-A12

<400> 5239

ccttccgcac gncaccggtc cagnaaatcc cgggtnacc acgcgtccga ntgattatct 60  
tctcttcccc tgtaagtact ccgatctaata tatttggtcc tatcagacat cccccaattt 120  
ctacgatcgg atttattcgt cgatcaagaa gctggctaag ttgtattggt ggtgattgta 180  
tagtttttat tattattcga gagaatgaac agtagaagct gtatctgtgt ctctgcgatg 240  
aaaccctggt gtagatttct tattagtttt agaagttcct cgcttttcgg tttttctccc 300  
ccgaactctg gcaaattcat caattcgtcg aagttacact gtacaaagat tgattccaag 360  
aagtattaaa tctggtatca ttgccgtcgg attgggtccgg gatngggaag gcttttggtg 420  
aatcccgatt ccaataagct gggggaagag gaggtttaaa agttttaana accta 475

<210> 5240



<211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-A4

<400> 5240

gaaagaccat ttttcaacgc cgctaaaacc ttcgggngga accgtttcnc tgactcnacc 60  
 gcagttttcg ccgttggtcc cacatttctc acaccgttta tctccgcttt cgaaatgggt 120  
 cgttcctctt aatggacctc tcttcttctc ttctcctcct tggaaacttc tccagtctgc 180  
 gacacctttg cactggcgcg gaaacggctc tgttttgaaa aaagtcgaag ctctgaatct 240  
 tagattggat cgaattagaa gcagaactag gtttccgaga cagttagggt tacaagtctg 300  
 tggtagcaaa catattgacg gtggatngca acgattccaa aggaagaaag atgggtggga 360  
 aaatttagtc aagaagtttg gttaatgtgc cgaatatgat atcaatgggc aagattataa 420  
 ccnggtcctg tgctttggg 439

<210> 5241  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-A5

<400> 5241

gtaccggctc naaaaaaaa nngggncccc acccagcgt caganctacc tctactgtga 60  
 agacgttgct gaggtttttg aagttgttct tcacaaggga gaagttggcc atgtttacaa 120  
 tattgggacg aanaaggaga ggagagtga tgaatgtgcc aaagacatct gcaaactctt 180  
 caacatggac cctgaggcga acatcaagtt tgtcgacaac agacctttta acgatcagag 240  
 gtacttcctt gacgatcaga agctcaaaaa gttgggatgg tcagagagaa ccacgtggga 300  
 agaaggggtg aagaaaacta tggattggta cacacagaac ccggagtggg ggggtgatgt 360  
 ttctggagca ttgcttcctc atccaaggat gctgatgatg cctggtgggc gacactttga 420  
 tggctccgag gacaattcgc tggcagctac tttatctgaa aancaatca aacc 474

<210> 5242

<211> 463  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-003-Q1-E1-B12

<400> 5242

aatccggggc cgaccaagcc gtcgaaagaa tcaacaatag atccttcttc catggcagat 60  
ctctctagtg aagtcttatt tgaccgggta ctgtttgtac nccatgggct gttaagcaat 120  
caccagccaa aatgggctaaa gccaaaggcct tcctctaatg aatcatccag agactttacc 180  
ttgtttgatc gcgatgcagc agagagctta cagaatgagc ttctcgcgat gcagttacca 240  
gacaccatta gatggcggat ccaagcagcg atgccaatcc tccttccttc tctacgctgt 300  
tctctctcaa gccancctca ttccgttccg ccaaacgcac tcaacacttt tcaaccctcc 360  
ggattcantg gccggctggc cggtagcaat caaaagnaana tcccctggca aaatcgaaaa 420  
aatTTggaat gggangnanc aaacaagggg aaattttaaac ccg 463

<210> 5243  
<211> 474  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-003-Q1-E1-B4

<400> 5243

aattctagcc gtccgtacgg tcnnngnttcc cgggtcnccc acgcgtccga aantgctttc 60  
accannccac tcgacgggag tctccaacgc ctctctcttc attctccact ctcacaccac 120  
caactttctga ttccagatct caacgatgca aagctccgcc gnatttccn tctctccgtc 180  
gcttctcttc ctaaaaccac gtcgggtctc tctccgccac catcccataa ccaccgccgc 240  
ttcttcaagc gatctaaacg tttctccaaa tgttgtctct attccttctt tatctcgtcg 300  
atcttggcgt ctgccttcgt ctgattcgcc tctccgtgct tgggtccggtg ttctttctcc 360  
gatctctcac tccttagaca cgaatcgttt cagaaccgcc gctactgcaa ttctgaaag 420  
tgctgaagga aggtgataac aagtgggaaa anttgacaaa ggtttnggaa cttg 474

<210> 5244

<211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-B5

<400> 5244

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attatgaacn naaattcaaa ttcaactatg atcgaattct aaacacaatt atgaagtaac 60
gacgatgaac tcnangcttt gtcatttggg gacttcgatg gatacgattc gctgcgattc 120
cgntatcttc ngatctccta ctctctcttg tacactggga agacaagatt cgggtatctg 180
taacagtaac ttgaatctgg taagatatgg acaaaatcaa tggattgcct gatgatttgc 240
tggtgaagat tttatcgat gttccaacgg atattgctgt atccactanc attttgtcta 300
agcgatggga gtttctttgg atgtggttgc ctaatctcga ctacacttct cggtggtgta 360
gaaagcccg tgacgttggg cttagggact ttatccacag gaatctgcc a ttacatanag 420
ctcccg 426
```

<210> 5245  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-C1

<400> 5245

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ngtaccggtg gtatctcggg cccccacgc gtccaaanag tttgtcagta ttggaactat 60
cttgatcttt ctggtaacat gttctctggc aagatcccgg tttcattgca gagtttgaag 120
ctaaaccage tgaatctgtc ttannngggcg gttanccggg gacttaccgc cttcttttagc 180
gaaagatatg tataagaata gcttcattgg gaaccggga ttgtgtgggg atatcaaggg 240
attgtgtggc tctgagaatg aagctaagaa gagaggctat gtatggcttc ttanatcgat 300
tttcgtactt gctgcatgg tgcttcttgc ggggtgttgc ttggttctact caagtccag 360
actttcaana aagcaaganc catgggagag atttaagttg actctaattg cgtttccana 420
anctcnggnt caatttagca ttaaaantcc ttgaa 455
```

<210> 5246

<211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-C12

<400> 5246

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tccgtgaccc gttcacccgc cacgtctaca ccaacatggt tgatgcactc atggactcga 60
catactcagc catgaaagct cttggatacg gtgatgttaa cattgtcggt ggcganactg 120
gctggccatc tgcttgtgac gcaccttggg gctcgccctgc gaatgctgct tggttcaacc 180
tcaacattat caaacgtgca caaggccaag ggacacctct catgcctaac agacggttcg 240
agacatacat tttcgggtctc ttcaacgaag aaggcaaacc cgggccgacc gcagagcgta 300
actgggggact tttccgagca gatttctccc cggtttacga tgttggtctt ctccgaaaac 360
ggacaaggcg gtggangccg cccaacaatt gcccgcaacta atactgccgg cggttaatgg 420
tgt 423
```

<210> 5247  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-C2

<400> 5247

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cgtaccgggc aggaatcccg ggtccaccca cgcgtccgaa acacgcgtcc ggnacaaaca 60
actggaacaa ggnnaatggt nnaagttcaa anggaacatt acaacatggt tngtaagaag 120
ggttcaaaca agttgtagac ttgcttcaag ggactcctta taatcagcag attgctaatt 180
gctgcaaggg tgggtgttatg aactcatggg ttcaagacct tgccactgcg gctagctcct 240
tccagattag tgttggtgct gctggaacca caaacaaaac cgttagggtc ccaagaaact 300
tcactctcat gggacctggt ccaagttaca cttgtggtcc aacaaaagat tgtcaagacc 360
aacaaaattt gtcacgactg acacacgcag aancactcaa agctatgatg acatggggaca 420
ttacntncac atactcncaa tttccttgcn caaanaactc caaanttgcc gggtttcc 478
```

<210> 5248

<211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-C3  
  
 <400> 5248  
  
 cncgggtccc ccacgcgtcc naaaacgcct ggggggtaag gtgatngata agataaatgt 60  
 gtatgcattc ggcgttggtc tctcagagtt actttcgga agaaaaccga ttagcagcgg 120  
 atgtccaaag ggacaagaga gtctagtcac gtgggccaaa ccaattctag atgatggaaa 180  
 gtattctcag ttattagacc cgagtttgcg ggataacaac aacaataatg atgaccaaatt 240  
 gcagaggatg gcgttagctg ctactctttg tattcgacgt agtcctcaag ctagaccgaa 300  
 aatgagcatc gtattaaagc tacttaaagg tgatgaagac acgcttgagt gggcaatgca 360  
 ncaagtgaat agttcatcag aggagtcaga gatgctcaaa gatgagcaat gccaaagatc 420  
 taacttgcaa tcacacctta acttaacact tc 452

<210> 5249  
 <211> 277  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-C4  
  
 <400> 5249  
  
 attccccgggt ccnccccacg cgtccganaa agtgatgtga tnatttgagc ctgaccagac 60  
 actaacacaa gaagctgaaa atgaaaagcc aaaaatccct cagatttgat gctttgcttc 120  
 aaaccgcttg tttgaatttt caannctctc acacatgtat tagtaattta atcagcgagt 180  
 gaaataatag agtttcagaa gagtaaaatg catgtgaata gntctgatta tttatggtaa 240  
 tgtgagcatt agagttaaaa aaaaaaaaaa aagggcg 277

<210> 5250  
 <211> 404  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-003-Q1-E1-C7

<400> 5250

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gttttgacca ctgtgatata catgcttatg ccgtttttca acgacgtcgt agggatttta 120

ggtgcgtag ggttttggcc tttgacggtt tactttccgg tggagatgta tataagacag 180

aggaagggtg agagatggag tatgaagtgg gtttgtctgc agatgttgag ctgtggttgt 240

ttgatgatca cgttggtcgc cggagttggc tccatcgccg gagtaatgct agaccttaag 300

gtttacaagc cgttcaagac tacttactaa acaaaccatg atgatgatga agaagaagaa 360

gtggtggaga naaaaacann agatataaat tttaatatat ttca 404

<210> 5251

<211> 474

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-003-Q1-E1-C9

<400> 5251

gccaccggtc catacaaccc ggtccgacc angccgtccg aagaagacaa aagcatttga 60

tcgaccgaca ttagtagcaa caanaacaag aaaccgggag ctagagcaac cgcataaaaa 120

ccgggagtat tggtaaattg cacaagtttc ttgaatcaaa accgggtccg ggttcttgc 180

caagaacacc tctacttaac aagaaaaaac catctcatcg accgacaata acaacaataa 240

aaccggtccc ggtacgtgta tcaagagaag aaatcaccgg gaggaaccg gaagctcgg 300

agattgctca agtttcttga atcaaaaccg gtctggttct tgctcaagaa cactgcaatc 360

gggttataat caaaaccaa cgaatctaa ccggtcttgc cctgattact tcaagtggat 420

tcacgaagga tttaaaacca tgggagagaa acanggatta caaaagaaat ggng 474

<210> 5252

<211> 442

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-H7

<400> 5252

gctatcatcg gaaactgagg gaacagagat cattcatcgc cgcggttgat atagagaaag 60  
atggggaaga caattcaagt gtttgattc cctaattggtg tgagcgcaga agaagttaag 120  
aagtttcttg aaagactcac tgggtcaggc actgtttacg caatcaaagt tagacaacca 180  
aagaaagggtg gtccaagagt ctatgccatt gttcaattca catctgagag acatacgagg 240  
ctgatcatca ctgcggcagc agaacgtctt tactatggaa gatcttatct caaggctttt 300  
gaagttgaac aagacattgt tccaaaagcc aagagcttca ttacacacca tctctgggtt 360  
taaaagatgt tctttggatg tcaagtctcg actaagaagt ttttaactct anggaagtgc 420  
tcaagatggt tgtgtcccg tt 442

<210> 5253  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-002-Q1-E1-F4  
<400> 5253

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gaggagcaga aaatgaagca gctaagccga ttctggattt gggctttatc ttccattgct 120  
ttccgattga tcttgatctc ctcccggga aatctcaatc tctcttccc tccggaggtc 180  
tctacccctc tcaccagcat tcgcccctt gctgaagggtt attgggtgaa gcaggcatcg 240  
atgtcaccat atgcaggatc tatgtatcat ggctcaccat tgctgctctc ggttcttgga 300  
cctctcacag ttcaaaggat taaagggcaa ccaagtcacc tcttggtgaa gcttggtttt 360  
tggtattgca gatatattaa gttcaatgct tcttcgagct attggtcagn aactccagat 420  
ggcttatgga ctgaatgcc aagatacttg ttttctang tcatca 466

<210> 5254  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB22-002-Q1-E1-F5  
<400> 5254

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 ttcgaagccc aaagagacga agaagaggaa acaggaagaa ccatctacgc aaaaggggtgc 120  
 aaggaaaagc aaaatagatg aggaaactaa gaggaatgac gaggagactg agaatgacaa 180  
 cacggaagaa gagaatggaa acgatgagga ggatgagaat ggaaacgatg aggaagatga 240  
 gaatgacgat gaaaatacag aagagaatgg gaatgatgag gagaacgacg atgaaaatac 300  
 ggaagagaat gggaatgatg aggagaacga gaaggaggat gaggaaaaca gcatggaaga 360  
 gaatgggaat gagaacgaag agaacgggaa tgangaccat agcatggaag aaaatgggaa 420  
 ccgggggttg tgaaagataa tga 443

<210> 5255  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-002-Q1-E1-F6  
 <400> 5255

agaatttttg ccgcctaccg gtangaattc cgggtcgacc cacgcgtccg cccacgcgtc 60  
 cgccaaaagg aagtctttac gacgttctcc acggtgtag cccgaaagaa aatgtgctag 120  
 actggtctgc acggtacaat gtagcacttg gtgtcgctca tggactagcc tatctacact 180  
 atgactgcca tcccccgatt gttcacctg acatcaaacc agagaacata ctcatggact 240  
 cagatttgga gctcacatt ggggatttcg gtttggtcgc ctttcttgat gactcaacg 300  
 tttcaactgc aactgttaca ggcaccaccg gctacattgc accagaaaac gctttcaaaa 360  
 ccgtgagggg gaagagaatc aagacgttta cagttatggg agtcgtgtta cttgagctgg 420  
 gttacaagga ananaacggg tggacaaatc cttccccggg aaagttacaa ggtatnagta 480  
 agcctggggt ganatttgcc ttt 503

<210> 5256  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-002-Q1-E1-G1



<400> 5256

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nngataatgg gagcctatga aacagaaaaa ccaactaaag 180

atgcggcggc tctagagaca cagtcgcccg aagatttcga tcaaccatct ccgcttcgta 240

aaatcatctc cgtcgcttcc atcgccgccg gtgtacagtt cgggtggggc ttacagctct 300

ctcttcttac tccgtacgtt caactcctcg gaatccctca caaatgggtca tctctcattt 360

ggctctgtgg tccagtctcc ggcatgattg ttcaaccaat cgtcggtttc cacaagtgc 420

cgatgtaggt tcaaatttgg tccgccgtcg 450

<210> 5257

<211> 402

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-G11

<400> 5257

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ctaaagcttt tttttatata aaatatatat atttacgtgt ctttgactta gtttacnatt 180

tgggaattggg gttttaccan ttttccctta ttttctcagg gaaagtattg ggattgcttg 240

gtttgcaagt tagggtttac tttanagatt agggctatat tgtttttttt gttttntttg 300

gtgtgtgttg tcttgtttgg tatgtantcn tgtagnagagg ctgaagcggc tgcataaaga 360

angggttggg ataaagattc atgtaacccg cagctctcnt tt 402

<210> 5258

<211> 495

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-G4

<400> 5258

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 naatggttnt cccctccgat nattagtctc tttaatcttt ctcagcctct tcttggtcgt 120  
 gatctctctt cctccggaag aagatgtcgg ccggtaacgg aaatgctact aacggtgacg 180  
 gaggggttag tttccctaaa ggaccggtga tgccgaagat aacgaccgga gcagcaaaga 240  
 gaggtagcgg agtctgccac gacgatagtg gtccgacggg gaatgccaca accatcgatg 300  
 agcttcattc gttacagaag aaacgttctg ctctaccac accgatcaac caaaacgccg 360  
 ccgctgcttt tgccgccgtc tccgaggagg agccgtcaga agattcangn ttcaatctat 420  
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<210> 5259  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 5259

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 aggaaatcaa tagccagggt atttctgctc gtgagaatat cagctcactt gagatggatt 180  
 tggaatcatt gcataatttg attactggac tggatgggaa gttggacacg ctggaataca 240  
 agcaggatgt cacaaatggt ttcattgctaa acttgataaa ctatcttgga ggcaagagca 300  
 caaagctgcc tgaaatggaa cagcttcagc ttctgtataa ccaagagggc tcgtaatttg 360  
 cttgcagatg ttgaaactaa agggctctgaa aaacttggct gaanaactgt tttaaaagca 420  
 aatggcacac angtgacaac cacagtgaac c 451

<210> 5260  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB22-002-Q1-E1-G7

<400> 5260

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ctggcggttag tcatcaaagc ggagctcggt gctcaaagtt ctcatctgc ttgttccctt 180

ctcacttcaa atccgcttca gttctcgagt ctctgatata cgagaatgga ggaaaagtgt 240

ggccgacttt taaggaattc aaattggagc agctgaaatc tgcgaccgga ggtttctctt 300

cagacaacat tgtatcaaga acacggcgag aaagctccaa acgttgtcta cagaggaagg 360

cttgatgatg gtcgtttgat tgctgtcaaa cgattcaatc gccttgcttg ggctgattat 420

ccacaatttc cggatgaaac 440

<210> 5261

<211> 487

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-H12

<400> 5261

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tatgcaagat tttcgtaaa accctaaccg gaaagacgat tactcttgag gtgganagtt 120

ctgacaccat cgacaacgac aangccaacg atccaagaca nagacggtat tcctccggac 180

cancaagagg ctgatcttcg ccggaaagca gttggtggat ggcanaactc ttgctgacna 240

caatatccat gaangagtc anccttcac ttgttctcag gctccgtggn ggtatgcaga 300

ttttcgtnaa gacgttgact gggaaaacta ncactttggg tggaggagag ttctgacanc 360

attgataacg tgaaagccac ggattnaana caangaaggg tattcctccg ggacaanaag 420

agattgatnc tccgccgggg aaacancttg aacattggca gaacntttg gcgactacaa 480

aattcaa 487

<210> 5262

<211> 485

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-H2

<400> 5262

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acgtgatgga atatgagaag atcgcaaagg agaaattacc anagatgggt tatgattact 180  
atgcatctgg tgctgaagat caatggactc ttcaagagaa tcgaaacgct ttctctagga 240  
ttctatttag gctcggatt cttatcgatg taagcaagat tgatgtgagc acaacgggtt 300  
tagggtttaa ttttctatg ccaattatga ttgctcctac tgcaatgcag aaaatggctc 360  
atcctgatgg cgagcttgca accgcgaaga gctacttctg ctgccnggaa caatcatgac 420  
ttaacctcat gggcnacntt gtatgttgaa ggaanttgct tcaaccgggc caagggatcc 480  
gtttt 485

<210> 5263

<211> 448

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-H3

<400> 5263

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ttgaggtgcc ggttactacg gagaaagctg tggctgcgcc tgctccgga gctacggagg 180  
agaaagttgt gtctgaggtg gcggtgcctg aaacagaggt gacggcgggt aaagaggagg 240  
aggttgcgac gggaaaggag atcttgcaat cggagtcgtt taangaggaa ngctatttgg 300  
cttctgaatt acaggaagct gagaanaatg ctttggctga gttaaaggag ttggttangg 360  
angctttgaa caaacgtgaa ttcaccgcgc caacgccaac aacaagctcc gggtaaaagg 420  
aaaannaaag ttganggaga aagaaaac 448

<210> 5264

<211> 422

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-002-Q1-E1-H4

<400> 5264

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ggggttgaca aaaaaaacg aaatcccggg aagatgtgga atcagaagca tgatttgag 120  
tcggctcaag acgcctctct acccgatgat gtcggagagc ccggagctcc gatggtcttt 180  
catccgcaag gtctattcca tcctctccat ccaagctgct cgttacaatc gccgtcgtg 240  
ccaccgtcgt taaggttcat tctatttctg tattcttcac caccaccacc gccggnntcg 300  
ctctctacat acttcttata ttgactccat tgatcgtnat gtgtcctttg tagtactatc 360  
accaagaagc ancctgtgaa ctatctgtta ctcggggatt tcaacgtcgc tcctgtcctt 420  
tg 422

<210> 5265  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-002-Q1-E1-H6

<400> 5265

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ttaaccagcc ctctctcttc tccccaaat ctccattttc tctgcaaac ccaaattcat 120  
caciaaccct aatttttagtc tctcaaaatc tccaccgttt ctaccaccgt caatgtggcg 180  
gccgtggcgt aaatcgtcgg ttaagattca cgacacatac tctccaacca ccgttctctt 240  
caaagacatn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnaaaa accgttctta gagtcttcca ccgagtcctg gcagctaatt tgatcctcaa 360  
atcgtggcca actcgtcaat ctaatcacct cctccgcgca gattccgaac ctatcaatcc 420  
aagccggaat caaatccag aatcagattc gaaganncca aaagcaaaaa nccaancaag 480  
atgtacggan ttcaaatcca agg 503

<210> 5266  
<211> 449

<212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-F3

<400> 5266

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 agacgttctt tctttgtttg tatttagaag aaaaatggct accaattaca acgagaagct 120  
 tcttcttaat tatgttcccg ttacggtat gttccggtg ggagttgtga atgtggaaaa 180  
 tgtatttgcg gaccagaaa cgcttgaaac gcagcttaaa cgtctcaaag aagaagctgg 240  
 cgttgatggc gttatggtcg atgtttgggtg gggaatcata gaatccaaag gtcccaaaca 300  
 atatgattgg acggcctaca aaacgctgtt ccagctgac gcacgtttgg gactcaaaat 360  
 ccaagcaatc atgtcttttc accaatgtgg tggaaacgtt ggcgacatcg ttactaacc 420  
 cgattccaca atgggttcgc gatgtcgg 449

<210> 5267  
 <211> 524  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-083-Q1-E2-A8

<400> 5267

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 atatagtttg tctacaagag gtacagaatg atcattttga ggagtttttt cttcctgagc 180  
 tggataaaca cggataccaa ggtcttttta agaggaaaac aaatgagggtt ttcacggtgta 240  
 atacaaacac aattgatggg tgcgtactt tcttcagaag agacagggtc tcacatgtaa 300  
 aaaaatatga ggttgagttc aacaaggctg cacagtcttt gactgaggct attatccctg 360  
 tttcccagaa gnaaaaatgc tttgaancgg ttggtcaagg ataatgttgc tttaatagtt 420  
 gtactggaag caaaattcgg tagccagctg ctgacaacct gggaagcgcc agctactttg 480  
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<210> 5268

<211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-B3

<400> 5268

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caaagccctt aaagatagga agatactttg tcatagcttt gctattttctc aaaaaaaaaat  120
gagggacgac agagaaagag gagaggggtga tttgtcatgg cctttgatcg gagagaaaag  180
tagtgtcaag gaagaagtga agaagcagct atggctttca ggcccactca tcgccgtgag  240
tcttcttcag ttttgtctac aagttatctc cgtcatgttc gttggccatc ttggctctct  300
tcctctctcc gccgcatcca tcgccacctc tttcgccctcc gtcaccggtt tcagcttctc  360
catgggaaca gcaagtgcgt taagatacgc tttgtggcca ancgtacgga gcaaagaata  420
cggnatgtta ggaataca                                     438
  
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<210> 5269  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-B4

<400> 5269

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cagaatcaga cctaagccat tgttgaagcc tttcctcatt tctccattta gatcaagaaa  120
tatggcaaac cgtccacacg ttccgaagtt tggggactgg aacaaccaag accaaccatt  180
cacggtcgtc ttgacaacg caaggacgaa caaacgacaa gacttgtatg aatctataga  240
gaaaccagag accaaacctc aagagctagc tcctcctcct cctcagcctg ctcgtagaat  300
tcaaaaaccg gaagcaccaa aaccggttaa gcaagacacg ccgagagcac ctccaccaac  360
cgaaaaaac agagtcaaag ctccaccggc agatcaactc tacggaggcg ggggcagtgg  420
aggcggaggc aaggagtg                                     438
  
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<210> 5270

<211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-B7  
  
 <400> 5270  
  
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 gcttaaggag acaagcccg c atctcgggtg tggaagagtc gttggtgggc gtgttatata 180  
 caaagacaaa accgctacga gtacttatga tcttgctcag agaattgtatt tcctttatgt 240  
 ccgcgttgtc aaagctcgtg agcttcctat aatggatata acaggaagtg ttgatccatt 300  
 cgtcgaggtg agagtgggga actacaaagg aatcacaaga ctttttgaga agagacaaca 360  
 tccggaatgg aaccaagtgt ttgcattcgc gaaagagcga atgcaagcct cgggtgttgg 420  
 aagtantggg ttaagg 436

<210> 5271  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-C4  
  
 <400> 5271  
  
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 cagctggaga ttagccgccg agaccaataa cgtcggaact tgggatctga ttccgtcaat 180  
 ctgcgtggat tccgctgccg agtatcttaa cggagaccag tttttatccg attacagtgt 240  
 catcgtcgat tatgctctcg cgtttgcgaa atcggttgaa atttccggcg acggcaagga 300  
 cgtgtggatc ttgatatac acgagacgct tctcacgaat attgactact acaagggatca 360  
 aggttacggg tctgaaccgt atgacgataa taaatttaat gantgggtgg gaacaaagga 420  
 acaactcca 429

<210> 5272



<211> 434  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-C5

<400> 5272

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 caaggaagcc tcgtatctta ctagctgcaa gtggaagtgt ggcttcaatt aagttcagta 120  
 atctctgccca ttgtttctca gaatgggctg aagtcaaagc cgtcgcttca aaatcatctc 180  
 tcaatttcgt tganaaacct tctctacctc agaatgtgac tctctataca gatgaagatg 240  
 aatgggtctan ctggaacaag attgggtgac ccgttcttca tatcgaagct canacgctgg 300  
 gctgatgtta tgatcattgc tcctttgtct gctaacacat tanccaagat tgctgggtggg 360  
 ttaagtgata atctantgac atgtatagta agagcatggg attatagcaa accgttgttt 420  
 gttgcaccgg cgat 434

<210> 5273  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-C6

<400> 5273

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 gcgttgatgg gtctcatcct cctcctcctc ctttaactcc tgatcaagct attatagagt 180  
 cggatccgtc gaagaagagg aaaatgggga tgcttctctc agaagtgggt actcgtgtga 240  
 tgtgtcggtg gagagacggg aaacaccatc cggtgaaagt aattgagcgc cggcggatac 300  
 ataacggcgg tcaaaatgat tacgaagtat tacgttcatt aactgagtt taataggagg 360  
 ctggatgaat ggactcagct ggaccaactg gaccttgatt caagtagaat gcgctgtaga 420  
 tgaaaaatgg aagac 435

<210> 5274  
 <211> 417

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-C7  
  
 <400> 5274  
  
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 atggatgaac gatttcacgt catttgatca aaccggtttc gagttttctg aatttgaaac 180  
 caaacgggaa ataatcgatc tegtactcc caaacgggag atttttgatt tcgatgtgaa 240  
 atctgaaatt ccatctgaat cgaacgattc cttcacgttc caatcgaatc ctctcgcgt 300  
 tactgttcaa tccaatcgaa aaccgccgtt gaagatcgca ccaccgaacc gaaccaagtg 360  
 gattcaattc gcaaccggaa atcctaaacc ggaacttccc gtaccggttg ttncagc 417

<210> 5275  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-C8  
  
 <400> 5275  
  
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 ttgtggaatc aatagctgtc tccgggaaaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnaataatta tccccgagcc aacatttatt gtcgattcgg 240  
 tttatttcgt ctcttcgtc ttccactctt actagtgc atgctctgaat tgtatgtaat 300  
 gggagttcaa cagtctggat ccattatcct agccgggtcg ggtcaaggtc tttgagtaag 360  
 agagacaatt cgttttgatt cgggtgtanaa gacatcatga atactgggtg tcgggntcat 420  
 tgctgggctc 430

<210> 5276  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-D5

<400> 5276

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tctctcgaca atggtgtcgg accaggatct agcgaaagga gtcgagactt tgcttcgaca 180
atccgaccct agctctctca catcgtaaag cagtattggt cagcagcttg aagctaagtt 240
agggttagac ctcacggaga agacgacttt catcagagat cagatcaata tcctcctccg 300
tgctcaccaa aacccttctg cctccgtcgc ctccgcttca tccgtacaac aatctcaact 360
cctcctccgg cgtcttctca ccaacaagca agaatttgca ttccggcgtc aatgttcctc 420
ccgaanggcg aaaaggg                                     437
  
```

<210> 5277  
 <211> 432  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-001-Q1-E1-D7

<400> 5277

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ttcttcatgc ctgctactcg tgtgcgtttt ttttttctct gtatggaaga ttgtttcatt 180
catatgattg atttgtttac aggttgctga ctttgagaaa tcagatccct gcctggtgat 240
ggatccgcca cagtggaagc aacctagttt cgcactccca gcatgataag atgcattctt 300
ttctcttggt attaatatgt cttgtgaagt tgagtcgttc tgttgcatgt actggaaaaa 360
aactaagatn cagaataacc ctatagaatg tgtgagaaat gaaatattta atcctctgta 420
tcgtttcact ga                                     432
  
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<210> 5278  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-001-Q1-E1-D8

<400> 5278

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ccggaaggaa tagttcttgg gtttcaacat tacattgtaa tgcttggaac tactgtaatc 180  
ataccttcca tactcgtccc tctaattgggt ggtggcgacg tggagaaagc ggaagtcata 240  
aacacagtat tggtcgtgtc aggaataaac acgttggtgc agagtttggt cggaagtcca 300  
cttcctgtgg tcatgggaag ctcttaaatg ccttaacctc aatccctggc tccttaacaa 360  
tcaactttcc tccttatccg attcaactta ctaactccaa tcctcatcct caagattttg 420  
aaagaagact aatgaanaag ctaattcaaa gggagc 456

<210> 5279  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-001-Q1-E1-E1

<400> 5279

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nnnagggttcg gngcccggn cgcctcanctc aattccggct cagaattcgg acaacctgaa 120  
gctctcttta tgcattctccg acatcgggga ggcaccgggtg gttctgtttt ctctcatctt 180  
gttcaagctc cagaggatcc tattcttggg gtgacagttg catacaacaa agatcctagc 240  
ccagttaagc tgaatttagg agttggtgct taccgaactg aggagggaaa acctttggtt 300  
cttaatgttg tgaggaaagc tgagcagcag cttatcaatg acagaacaag aatcaaggag 360  
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gctgacagtc ctgctaatacg 440

<210> 5280  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E2

<400> 5280

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acatgttggg aagattaatt gcgttctttg gtgtccctct ggaaattctg acaagttaat 180  
cagcatggat gaacaaaatc ttgtcttctg gagtttagac tcttcaaaga aaagtgcgga 240  
ggttttatct aaggagtcag ctgggatgcg tcattcttta tctgggtggag catggaatcc 300  
acatgatgtg aattctgttg cagcaacttc tgaatcatct atccagtttt gggacttacg 360  
tactaagaaa gaagaataat tcaattgaac gtgcccattg acgtaatgtt gactacaatc 420  
ccaaagagaa gaaca 435

<210> 5281

<211> 436

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-005-Q1-E1-F6

<400> 5281

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ttaatcgatc tgaacgtgat ggagacggag gaagacgaaa cgcaaacgca aacaccgtct 180  
tcagcttctg ggtctgtctc tcctacttcg tcttcttcag cttctgtgtc tgtgggtgtc 240  
tcgaattctg ctgggtggagg ggtttgtttg gagctgtggc atgcttgtgc tggaccctt 300  
atctctctac caaaaagang aagccttgtg ttgtatttcc ctcaaggaca tttggaacaa 360  
gcccccgatt tctccgcgcg gatttanggg ctccctctc aacgtgttct gtcgtaatct 420  
cgatgttaag cttcac 436

<210> 5282

<211> 469

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-014-Q1-E1-E5

<400> 5282

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tcctctttca ncgtatggaa tccganagat ttcgctaaan atttgcttcc taaacacttc 120  
aaacacaaca atttctctag tttcgttcgt cagctcaaca cttacggatt caaaaaagtt 180  
gtaccggatc gatgggagtt ttcaaacgat ttctttaaga gaggagaaaa acgtcttctc 240  
cgtgagatcc aacgtcggaa aataacancg acgcatcaaa cagtttggtg gcccttcgtc 300  
cngaataatc gaanccatac caatgggtgt ttcaacgtca aantccgggg aaagataata 360  
atgattaaca agggatatgtc ctcncctcg tntcctggn aattgnnaac aaacgaaaga 420  
ncaacnggaa aggnnggtta acnattggtt tattggaaaa aaacaanaa 469

<210> 5283  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-014-Q1-E1-H11

<400> 5283

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gggctatgac tactctaggt tttgaggatt atgttgagcc attgaaagtt tacttgcaga 120  
ggtttagga gatcgaaggg gagaggactg gactagggag gccacagacn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
ngatgcagta tcaccaacat catcagtttc ttcaccagca gaaccatatg tatggagcca 300  
caggtggcgg tagcgacagt ggaggtggan ctgcctccgg taggacaagg acttaacaaa 360  
agattggtga aatggattcc cccctgtat atagatacat aaatacatgt ttacacatgc 420  
ctaattttaa caacccatat tan 443

<210> 5284  
<211> 442  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-025-Q1-E1-E4

<400> 5284

cacgcgtcca cgnaacgcgt gggcggacgc gtgggcggac gcgtgggctc ctgagaacca 60  
gcaccaaagg agtgataaca ttggtccacc tccacctaata cgacaaagaa ggaataatgc 120  
ttctggaact ctgccagata atcgccaaag agttgcatct aggacgcggc ctgtgaatca 180  
ggggaaaagg gtagcgaagg agganaatgt tgtgttgaca gacccaaact tgcctcaact 240  
tgttcaagag ttacaggaga agcttgtcaa gagttctatt gagtgtatga tttgttatga 300  
caaggttggg aggtctgcca atatctggtc atgctccagc tgttattcca tcttccatat 360  
caactgtatc aagaagtggg ctgagcaac aacttcagtt gatttgctag ctgagaaaaa 420  
ccaagtgat aactggagat tc 442

<210> 5285  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-045-Q1-E1-B1

<400> 5285

aagtttcccg ggaacgaccc acgcgtccga atgagaccat aaactcatcg agggaagcaa 60  
atgagtcaaa tctctcggat tctgcagtta caagtatgga ttactttcta agttcgtcgg 120  
cttattctcc tgggtggcatg gtcatgccta tcaagtggaa tgcagcagca atggatattg 180  
gctgctgcaa acttaataata tgatcagcag ataggggaca agacatgatt tggttcacca 240  
agtcttttgt cttgtccctt atctttcagc caaacggaaa gagaacttgt gtcttgggaa 300  
aaaagacatt gagtttcctt gggttataag attggctcctt ttaccatccg tttggctgta 360  
aacaggcaaa tcactnttgg ctcatgcttc atcaagttct taccctccgt ctggttttcc 420  
tctacgcac cttcaaaaag attctctgaa ctantgaata acatttc 467

<210> 5286  
<211> 514  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-059-Q1-E1-A4

<400> 5286

ncccggtccg ggaaaaccgg gtccaccac gcgtcggcnc ccnggttttg ttttctttgt 60  
 ctccgatttt tttegcnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnt ctgtaaccga ttttaaagat ctcaattttt angggttgtt gatttttcaa 180  
 tttctggggtt aatttttttt anggttttca ttgggaatc atgtcggatg cgtattgtac 240  
 ggattgtaaa aaggagacgg agttggttgt cgatcactca gccggagata ccctttgctc 300  
 cgaagtgtgg ttggtttttg gaatctcact ccattgatga gacctctgag tggcgtaacct 360  
 tcgctaataa atcttccaac agcgatccca atcgtgtcgg tggccaacc aaccgccttc 420  
 tcgctgataa gtgctttaac cactgttatc gctaagccaa tgggtcaacc tgggtgaatt 480  
 cctggcctcc tcctctcggg aaggtggcaa naat 514

<210> 5287  
 <211> 384  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-074-Q1-E1-D8

<400> 5287

acncgtccna agagactctc gccgtctaata gggaagctgt tgggtctgatg gctcttacgc 60  
 tgggtggagga atgggtcgggtg ttggtggtgg ggctaattcc tccgccgcca ctccctaacga 120  
 cgccgttgac tactatctca agtctcgtgg ctacaatggc ctcttttctc agatcgagtt 180  
 atctttctct gcttccaatt tgcgagaccg ggacgtgatt tcaaagagt atgcaatgg 240  
 ggttggttat acaaaaggaa gagatggaac acttgctgaa ttgtttcgta gtgaanttgt 300  
 tttgaattct ttgaatccta aatggattaa ggaattttan tattgggtat canttcgaga 360  
 ntgtgcaaac attgctgtn tcgt 384

<210> 5288  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB22-083-Q1-E2-F7

<400> 5288

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cttggggccg ttatgccgcc gagatccgag atccgggcaa gaaaaccgc gtctggcttg 120  
gcactttcga tacggctgaa gaggcggcgc gtgcttacga tacggcggcg cgtgattttc 180  
gtgggtgctaa ggctaagacc aatttcccaa cttttctcga gctgagtgc cagaagggtcc 240  
ctaccggttt cgcgcgtagc cctagccaga gcaacacgct cgactgtgct tctcctcccg 300  
acttagttgt gccttcaacc aaggctggga aatgttcccc ccgcaactcg aagcttaatc 360  
tcgggcggag gangcggcgg ctctgtgtaa caagattccc gatgtcgcgt cctgtctact 420  
tttgacctg aatggggatc ggtaacgta gtcgtggtc aagcctctc ctgtgacaat 480  
cggcgt 486

<210> 5289  
<211> 494  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-F2

<400> 5289

cggcccggtc caccaattaa cgggtccacn cgcgcgtccg gntatcagta tttcagctct 60  
gaccagggta gtaattcttt cgattgttcg gagtttggtt ggagcgatca agctccgata 120  
actcccgaca tctcttctgc ggttatcaac annaacanct cagctctgtt ctttgaggaa 180  
gccaatccag ctaagaagct caagtctatg gatttcgaga caccttacia caaactgaa 240  
tgggacgctt cactggattt cctcaacgaa gatgctgtaa cgactcagga caatggtgca 300  
aacctatgg acctatggga gtattgatga aattcattcc atgattggag gagtcctctg 360  
aagaaattca atttcaatgt naataaagnt gcatgtttgt taatttcccg catcggtccg 420  
tttatcaacc tccaaaactt tctaaagtcc gttactgcat cctcctctgc tgtctctgtc 480  
cgtcctccc aaga 494

<210> 5290

<211> 514  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-013-Q1-E1-G5

<400> 5290

acttctnctc cgccccgtac aagtccanaa attccccggg cgacccacgc gtccgcacca 60  
ctctctctct aatctatcta tccgagaatg gccaaagtgg gcttgaaacc cgacccgggt 120  
actactaacc agaccacaaa taatgccaaag gagattcggt acagaggcgt taggaagcgt 180  
ccttggggcc gttatgccgc cgagatccga gatccgggca agaaaaccog cgtctgcctt 240  
ggcacttttc atacggctga agaggcggcg cgtgcttacg atacggcggc gcgtgatttt 300  
cgtggtgcta aggctaagac caatttccca acttttctcg agctgagtga ccagaaggtc 360  
ctaccggttt cgcgcgtagc cctagccaga gcagcacgct cgactgggtgc ttctcctccg 420  
acgttagttt gtgccttaag cgaacggctg ggaatgtttc ccccgcaact cgaacctaat 480  
cccgccggaa ggaagcggcg gctccttttt acaa 514

<210> 5291  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-017-Q1-E1-D4

<400> 5291

ccacggtcac aaatccgggg ncgaccacgc gtcnnaana aacagagaaa atgtgtggcg 60  
gtgctattat ttccgattat gccctctcgc tcaccaangc caagggccgt aaactcacgg 120  
ctgaggaact ctggtcagag ctcgatgctt ccgcccgcga cgacttctgg ggtttctatt 180  
ccacctcaa actccatccc accaaccaag ttaacgtgaa agaggaggca gtgaagaagg 240  
agcaggcaac agagccgggg aaacggagga agaggaagaa tgtttataga gggatacgta 300  
agcgtccatg gggaaaatgg gcggctgaga ttcgagatcc acgaaaagggt gttagagttt 360  
ggcttggtac gttcaacacg gcggaggaag ctgccatggc ttatgatgtt gccgccaagc 420  
agattcgtgg tgataaagcc aaactcaact tcccagattt gcacaatcct cctcctcc 478

<210> 5292  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-017-Q1-E1-H1

<400> 5292

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acggtcanaa atccgggtcg acccacgcgt ccgaggacgc gtggggacaa agaagaaaaa 60
ctaaaaaaga gaaccccaaa gaatcgaata tttattattt cgccccgaag attctatttc 120
tgatcattta caccctaaa aagagtagag ctttcgtgaa gccaccatgt gtggaggagc 180
tataatctcc gatttcatac ctccgccgag gtccctccgc gtcactaacg agtttatctg 240
gccggatctg aaaaacaaag tgaaagcttc aaagaagaga tcgaataagc gatccgattt 300
cttcgatctt gacgatgatt tcgaagctga tttccaaggg tttaagggat gactcggctt 360
tttgactgcg aagaccaatg atgatgtcnt cgtcaatgtt aagcctttcg tcttcaccgc 420
aactactaag cccgttanct tccgctttcg tctccactgt aggttcanca tatgccaaga 480
a 481
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<210> 5293  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-B6

<400> 5293

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tatccgagaa tggccannat gggcttgaaa cccgaccggg ctactantaa ccanaccac 60
aataatgcca aggagattcg ttacagaggc gttangaagc gtccttgggg ccgttatgcc 120
gccnanatcc ganatccggg caataaaacc cgcgtctggc ttggcacttt cgatacggct 180
gaagaggcgg cgcgtgctta cganacggcn ggcgntgatt ttcgtggtgc taaggctaag 240
accaatttcc caacttttct cgagctgagt gaccagaatg tccctaccgg tttcgcgcgt 300
anccctagcc agagcagcac gtcgactgt gttctctctc cgacgttaag ttgtccttca 360
gcgactgctg ggaatgttcc cccgcantc gagcttatct ccggcggang aaggcct 417
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<210> 5294  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-024-Q1-E1-D7  
  
 <400> 5294

acgcgtccgn agattcgaga tccacgaaaa ggtgtagag tttggcttgg tacgttcaac 60  
 acggcggagg aagctgcat ggcttatgat gttgcggcca agcagatccg tgggtgataaa 120  
 gccaaactca acttcccaga tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnng gcgaagaagg tctgcgttgt ctctcagagt 240  
 gagagcgagt taagtcagcc gagtttcccg gtggagtga tangatttgg aaatggggac 300  
 gagtttcaga acctgagtta cggatttgag ccggattatg atctgaaaca gcagatatcg 360  
 ancttggaat cgttccttga gctggacggt aacacggcgg agcaaaccga gtcaancttg 420  
 atgantcccg tttttccccc gggggg 446

<210> 5295  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-037-Q1-E1-D3  
  
 <400> 5295

agcctgccgt tcggtegna attcccgggt aaaccacgc gtccgcacaa ctctctcnct 60  
 aatctatcta tccgagaatg gccaaagtgg gcttgaaacc cgaccgggt actactaacc 120  
 agaccacaa taatgccaaag gagattcgtt acagaggcgt taggaagcgt ccttggggcc 180  
 gttatgccgc cgagatccga gatccgggca agaaaaccg cgtctggctt ggcactttcg 240  
 atacggctga agaggcggcg cgtgcttacg atacggcggc gcgtgatttt cgtggtgcta 300  
 aggctaagac caatttccca acttttctcg agctgagtga ccagaaggtc cctaccggtt 360  
 tcgcgcgtag ccctagccaa gagcagcacg ctgcactgtg cttctcctcc gacgttagtt 420  
 gtgccttcag cgacggctgg ggaaatgtt ccccggcagc tccgagctta gtctccggcn 480

<210> 5296  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-C8  
  
<400> 5296

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atTTTTTTac cggcggttat ggagacggaa gcggcgggtga cagcgacggt tacggcggcg 120  
acgatgggga ttgggacgag gaagagagat ctgaaaccgt ataaaggaat acgaatgagg 180  
aatggggga aatgggtggc ggagatacgg gaaccgaata agagatcaag gatctgggta 240  
ggttcttatg cgacgcctga agcggcggcg agagcttacg aactgctgt tttttacctc 300  
cgtggtcctt cagcgagggt taattttccg gagcttttgg ctggacttac tgtttctaac 360  
ggcggangaa gangtggtga tttatcggcg gcgtatatta ngagaaaagc ggcngangtt 420  
ggtgctcang ttgatgccgc ntggaaccac 450

<210> 5297  
<211> 504  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB22-039-Q1-E1-D2  
  
<400> 5297

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ccacctcaag aagaagtgcc taaccacgtg gctacaagga agccgtacag agggatacgg 120  
aggaggaagt ggggcaagtg ggtggctgag attcgtgagc ctaacaaacg ctcacggctt 180  
tggtttggct cttacacaac cgatatcgcc gccgctagag cctacgacgt ggccgtcttc 240  
tacctccgtg gccctccgc acgtctcaac ttccctgate ttctcttgca agaagaggac 300  
catctctcag ccgccaccac cgctgacatg cccgcagctc ttataaggga aaaagcggcg 360  
gaggtcggcg ccagagtcga cgctcttcta gttcttgccg ctcttcgat ggctcactcc 420

actccgccgg taataaaacc cgacttgaat caaataccgg aatccggaga tatatatcaa 480  
 attaataac atgttagttt gttt 504

<210> 5298  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-055-Q1-E1-A5  
 <400> 5298

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 tncanctgaa actcgagtta agaaccggaa acagaatcca attcaaccaa accgaatcga 120  
 accgaaccgg agttttttatc caatgggtgaa gcaagcgatg aaggaagagg agaagaagag 180  
 aaacacggcg atgcagtcaa agtaciaaagg agtgaggaag aggaaatggg gaaaatgggt 240  
 atcggagatc agacttccac acagcagaga acgaatttgg ttaggctctt acgacactcc 300  
 cgagaaggcg gcgcgtgctt tcgacgccgc tcaattttgt ctccgcggcg ggcgatgcta 360  
 atttcaattt ccctaataat ccaccgtcga tctccgtana aaagtcgttg acgcctccgg 420  
 agattcagga aagctgctgc taaattcgct aacacattcc naggacattg tcaagggaag 480  
 aaagaaa 487

<210> 5299  
 <211> 401  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-061-Q1-E2-F6  
 <400> 5299

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 catgagtagc gtagacgaga gctctacaac tacagattcc attccggcga gaaagtcac 120  
 gtctccggcg agtttactat atagaatggg aagcggaaca agcgtggtac ttgattcaga 180  
 gaacggtgtc gaagtccgaa gtcgaagccg aatcaaggaa agcttccttc ttcaagattc 240  
 aaaggtgttg ttcttcaacc aatggaaga tggggagctc agatttacga ggaaacatca 300

acgcgtgtgg cttggtactt tcaacgagga agacgaagca gctcgtgctt acgangtcgc 360  
 gggntcacgt ntccgtgggc cgcgatgccc gntaccaaag t 401

<210> 5300  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-068-Q1-E1-F12  
 <400> 5300

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 taaccagacc cacantaatg ccaaggagat tcgttacaga ggcgttagga agcgtccttg 120  
 gggccgttat gccgcgaga tccgagatcc gggcaagaaa acccgcgtct ggcttggcac 180  
 tttcgatacg gctgaagagg cggcgcgtgc ttacgatacg gcggcgcgtg attttcgtgg 240  
 tgctaaggct aanaccantt tcccaacttt tctcgagctg agtgaccana aggtccctac 300  
 cggtttcgcg cgtagcccta gccagagcag cacgctcgac tgtgcttctc ctccgacgtt 360  
 agttgtgcct tcagcgacgg ctgggaatgt tcncccgcaa gctcgagctt 410

<210> 5301  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB22-083-Q1-E1-F7  
 <400> 5301

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 gcactttcga tacggctgaa gaggcggcgc gtgcttacga tacggcggcg cgtgattttc 180  
 gtggtgctaa ggctaagacc aatttcccaa cttttctcga gctgagtgac cagaagggtcc 240  
 ctaccggttt cgcgcgtagc cctagccaga gcagcacgct cgactgtgct tctcctccga 300  
 cgttagttgt gccttcagcg acggctggga atgttcccc gcagctcgag cttagttctn 360  
 gcggaggagg cggcggctcg tgtaatcag atcccgatgt cgcgttctgt ctacttttgg 420

acctgatggg gatcggtaac gtacgtcgtg gtcagcctcc tccct

465

<210> 5302  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-008-Q1-E1-F1

<400> 5302

aactactaaa gccccgttan cttcngcttt cgtctccact gtaggttcag catatgccaa 60  
gaaaactgta gagtccgctg agcaagctga gaaatcttct aaagaggaag aggaagaatc 120  
aataccgagg gattangcag cgtcnttggg gaaaatgggc tgcggagatc cgtgatccga 180  
agaaaaggct cccganaatg gcttgaaca ttcgacactg ctgaggaagc agcaagagct 240  
tatgatgctg cagcacgcag aatccgtggc acgaaagcta aggtgaattt tcccgangag 300  
aagaacccta gcgtcgtatc ccagaaacgt cctagtgcata agactaataa tcttcagaaa 360  
tcagtggcta aaccaaaca aagcgtaact ttggttcaac agccaacaca tctgagtcac 420  
caagtactgc aacaactc 438

<210> 5303  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-063-Q1-E1-A3

<400> 5303

nnnggntcgn nccacgcgtc cgttctcatg tcttctcttc tcttcgacct ttgagggttt 60  
ttttgttcgt tgtgatggcg agagaaaaga ttcacgatca ggaagatcga caacgcaacg 120  
gcgagacaag tgacgttttc gaaacgaaga agagggcttt tcaagaaagc tgaagaactc 180  
tccgttctct gcgacgccga tgctcgtctc atcatcttct cttccaccgg aaaactgttc 240  
gagttctgta gctccagcat gaaggaagtc ctagagaggc ataacttgca gtcaaagaac 300  
ttggagaagc ttgatcagcc atctcttgaa gttacagctg gttgagaaca gtgatcacgc 360  
ccgaatgagt aaagaaattg cggacaagag ccaccgacta aggcaaatga gaggaganga 420



acttcaaggg acttgacaat tgaaga

446

<210> 5304  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-016-Q1-E1-C1

<400> 5304

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aaagtcaaag atggacgacc taggattgct gttagganat gattggattc ggaaacacaa 120  
tgtcaaagtg aaacaatacc atatgaatta tcagagaagc tcatggcata agatgctggg 180  
gttgctgaag gtggataata ctgcancagg catgaacggg ttggggaaga ccatgaagga 240  
gaacctgaag cagttcaata ttcagtttga tgagatatgt aaagtgcatt cgacgtgggt 300  
antgtttgac gagcagctga aagaacagct aaanatctca ctggccaaac ttttggtacc 360  
ggcatacggg gagcttcac ngcangttcc aaaaaacctt ggngacatan ggaaaaaacg 420  
cagacaagtt acatccaagt atggannttg atgacatnta ngcncctnat taacgaagct 480  
gttc 484

<210> 5305  
<211> 497  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB22-021-Q1-E1-G2

<400> 5305

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agatagtggg aagaagaata tgggtatggg tgggtataga cttgctgagc ttgctttgct 180  
tgatcctaaa agagctaaaa ggatttttagc gaatagacaa tctgcggcga ggtcgaaaga 240  
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aaataaacac ctcaaaatgc ggcttcaagc tttagagcaa caagctgaac ttanggatgc 420  
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 tttcacaatg ggtctagtga taacattaca gaagatgata aatctcaatc gcaggagtgt 180  
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 gaggtagata aaangtataa ccaataccat catcaaattg aagctttanc atcgtctttc 300  
 gagatggtaa caggtcttgg agcagctaag ccttacacat ccgtagctct gaatagaatc 360

tctcgccatt tccgctgttt acgcnacgcg ataaaagaac agattcaagt gatnnagang 420  
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catgtttttg attttctaaa atagggggaa aaagtacaag acttttcaag ctatgtcctt 180  
gattaagtct agtgatatcc tcaataagaa atgttttgag aacaccattg ggatctaaat 240  
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aaattacaaa ttcacccgaa atcattattc cgcgccagac ttaacccttc ctttaattgcc   240
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aatttcaaaa cttcataaga atttctctga taataaagaa aaagctggag tagaactatt 180

ttaaagtgtc atcatgaaga gactaagcag ctcagattca atgtgtgggtc taatctccac 240

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 agagaaaaaa tgacgaatat gtattatctt gttttttttt ctttcgaata tgtattacgg 180  
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 agattcaaga gtcgcttctt actccgaggt tctacacgac ggacttcgag gaaatggaac 300  
 agcttttcaa cacggagatc aacaagaacc ttaacgaagc agagttcgag gctctgcttc 360  
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<223> Clone ID: LIB23-035-Q1-E112-F8

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 gaatgtcagc ctcttctca cgcctctctc caaccaccgc cacctcgaag tccaagaagg 180  
 gaacgaagaa agagattcaa gagtcgcttc ttactccgag gttctacacg acggacttcg 240  
 aggaaatgga acagcttttc aacacggaga tcaacaagaa ccttaacgaa gcagagtctg 300  
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<223> unsure at all n locations  
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<400> 5334

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 acgtttcatg aattgctaca aactctaatt aatTTTTTca gacagatcat anaaaaaac 360  
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 cttgagtgat tcacagtgcg agttcgatta ccttggttaac caatggcaga tgatacactc 240  
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 gacggtgacg actgaaacaa ctccgacgcc ggcgatggag attccggcac atgcgggatt 240  
 taatcaagag actcttcatc aacgtttaca agctttgatt gaaggaacac acgaagggtg 300  
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 caggaaacaa aattcaaaaa gaacaaaaaa aaaagggtcaa accaaaacga tggcggtttca 180  
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 <211> 383  
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 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-066-Q1-E1-D4  
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 aagctttgtg atcagatctc cgacgctatc ctcgatgctt gccttgaaca agaccctgag 180  
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 accaccaagg ctaacgttga ttacgagcag attgttcgta aaacatgccg tgagattgga 300  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB23-028-Q1-E1-H8  
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 caagctttgt gatcagatct ccgacgctat cctcgatgct tgccttgaac aagaccctga 180  
 gagcaaagtt gcttgtgaga cttgtacat gactaacatg gtcattgggtt ttggagaaat 240  
 caccaccaag gctaacgttg attacgagca gattgttcgt aaaacatgcc gtgagattgg 300



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gcaacagagt cctgacattg ca 382

<210> 5340  
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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-065-Q1-E1-G2

<400> 5340

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agctttgtga tcagatctcc gacgctatcc tcgatgcttg ccttgaacaa gaccctgaga 180  
gcaaagttgc ttgtgagact tgtaccaaga ctaacatggt catggttttt ggagaaatca 240  
ccaccaaggc taacgttgat tacgagcaga ttgttcgtaa 280

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<213> Arabidopsis thaliana

<223> Clone ID: LIB23-004-Q1-E1-F5

<400> 5341

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acaagctttg tgatcagatc tccgacgcta tcctcgatgc ttgccttgaa caagaccctg 180  
agagcaaagt tgcttgtagag acttgtagca agactaacat ggatcatggtt tttggagaaa 240  
tcaccaccaa ggctaacgtt gattacgagc agattgttcg taaaacatgc cgtgagattg 300  
gattcgtctc tgctgacgtt ggtctagatg ctgacaattg caacgttctg gttaacattg 360  
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aggttggagc t 431

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<211> 456

<212> DNA  
 <213> Arabidopsis thaliana  
  
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 gaacagtgat cacgcccga tgaagtaaaga aattgctggac aagagccacc gactaaggca 180  
 aatgagagga gaggaacttc aaggacttga cattgaagag cttcagcagc tagagaaggc 240  
 ccttgaaaact ggtttgacgc gtgtgattga aacaaagagt gacaagatta tgagtgagat 300  
 cagcgaactt cagaaaaagg gaatgcaatt gatggatgag aacaagcggc tgaggcagca 360  
 aggaacgcaa ctaacggaag agaacgagcg acttggcatg caaatatgta acaatgtgca 420  
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 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 taagcagtac tatctccagc acatccatga gctccagcgc cagcttcgac ataagactaa 240  
 taacctcaat cgccttgaag ctcaaaggaa tgaactcaat tctcgagtga gaatgctcag 300  
 acaagactta cagctccttc aagaacctga gtcctatgtg ggagaagtgg taaaagttat 360  
 gggaaagaac aaggctcatg ttaagggttca tccagagggg aagtatgttg ttgatattga 420  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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acagcgatgg aggaaacctg taacgtgaaa ggagcggcgg cgaaacaagg ggaagggctt 180  
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aacctcaatc gccttgaagc tcaaaggaat gaactcaatt ctcgagttag aatgctcaga 300  
gaagagttac agctccttca agaacctggg tcctatgtgg gagaagtggg aaaagttatg 360  
ggaaagaaca aggtcttggg taaggttcat ccaganggga agtatgttgt tgatattgac 420  
aaaagtatat acattacgaa aatcactcca tcaacg 456

<210> 5345  
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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-036-Q1-E1-C12

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gcttggtggt aaatacggtc caagaaactg gacagtgatt agcaaacta ttcccggtag 180  
atcggggaaa tcgtgtcgtt tacggtgggt caaccagctt tcgccgcaag ttgagcatcg 240  
gccgttttcg gctgacgaag acgagacgat cgcacgtgct cacgctcagt tcgtaataa 300  
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gaactcgacg ctcaagagga aatg 384

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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-066-Q1-E1-D2

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gtgtaggag gaagcaaagg aagcagaaag ggccagaggc ggcgcgaga cttccgacgg 180

tgactccgtc tactaagtgt aagctccgt tactgaaatt ggaacggatc aaggattatt 240

tgttgatgga ggaagagttt gtggcgaatc aagagagggt gaaacctcag gaagagaaag 300

ctgaggaaga tagatctaag gttgatgatc ttcgtggtac acctatgagt gttgggaatt 360

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<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-001-Q1-E1-F11

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gccggcgga ccaccggctc gtgtaggag gaagcaaagg aagcagaaag ggccagaggc 180

ggcgcgaga cttccgacgg tgactccgtc tactaagtgt aagctccgt tactgaaatt 240

ggaacggatc aaggattatt tgttgatgga ggaagagttt gtggcgaatc aagagagggt 300

gaaacctcag gaagagaaag ctgaggaaga tagatctaag gttgatgatc ttcgtggtac 360

acctatgagt gttgggaatt tgggagagtt gattgatgag aatcacg 407

<210> 5348

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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-013-Q1-E1-E9

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gaaaaacaat ggcgtctgtg aaccctttcg atctcttga cgatgacgca gaggatccca 180  
 gccagattgt tgcgtctaag ccattgaagg ttgtggctcc gggtcagact gctaagtctg 240  
 gtaagatgcc gactaagccg cctcctcctt ctcaagctgt gagggaggca aggaacgctc 300  
 ctgggtggagg tcgtgggtgct ggacgtggag ggagttatgg tcgtgggtgga cgtgggtgaa 360  
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 <211> 421  
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 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-039-Q1-E1-F7

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 tcctatatct tgagttttgt gagagggttaa ttatatgaaa ttttacgcat tattgttcat 180  
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 gcatggacca ccgaggagga caagaaactc atctcttaca tccacgacca cggctaggga 300  
 tgctggcgcg acattcccca gaaagctggg ttgaaacggg gtggaaagag ttgtagaacg 360  
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 c 421

<210> 5350  
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<223> Clone ID: LIB23-035-Q1-E1-H11

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 aaagtgtgtt ctttaataca atcaaataca agagactttt gaagattgtt tccaatttg 180

cgtcaatcgg gatcgagtca aatctgaaat cttctccact catcatctga ctataagact 240  
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 gtatggatga aaataatgga ggttcaagct cacttccacc tttccttact aaaacatatg 360  
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 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-022-Q2-E1-E4

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 aaacaatttc cttcagaatt ttactTTTTT gaacatatat agttttttctc tgttcctata 240  
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 gaaaaacaat gtcaagaaag ccatgttgcg tcagagaagg cttgaagaaa ggagcatgga 360  
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<223> Clone ID: LIB23-048-Q1-E1-H10

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caaacacatg ggttggttagc ggttctctc agaccaaaaa attgcaagat atccttcctc 360  
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 caaggctaac gttgattacg agcagattgt tcgtaaaaca tgccgtgaga ttggattcgt 300  
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 <223> unsure at all n locations  
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 agataccatc tcatcanctc aagcattggg caatttgtgt ccgggccggc tngagcaacc 420  
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 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 gtattgctgg ggtttttcca atgcaaactg ctcagaaaca tcacagtgcg gctggactgc 240  
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tggtcgagct gagaagcctg agatagacac ttcgggtccg ttcgagtcag tgagagaagc 180  
agccactcgt ttcggcggtt ttggtttctg gagaccttct ctcaataaac tcccagatgc 240  
ttctcaggaa aatatccaag aacctgatat catgggactc aaagcacaag ctttcgagct 300  
acaaagagaa ctaattgtta aagaacgcga aacgctagan gtgttgaagg agcttgaggc 360

gactaaagcc acagtcttaa agctgcanca gaaggaatga aancttatga ggaggncaac 420  
gttgagagaa agaagttgac aatcatatca aagncaaccg gtgttggtcc aaaaggatta 480

<210> 5359  
<211> 516  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-G7  
  
<400> 5359

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ttcgcagttt tctttctcag aggcgggtca tggcgacact gtgctttctc ccatcggtt 120  
gatttcattg tgattttcta aattgaggat atgattttct gagccatggg aaggagaga 180  
agaaagctta gcttgagctt gaattatgat tcatctgaga aatgcaggca aatgttgatg 240  
cacatctcct gttgttcaag taaacttttt ctgattcgcc actacagtat cttgtccgtt 300  
caatttctgt ctgattgatg gccttttttc gttcanaate attgtttggt gttgatgaga 360  
acacgggagc tgcaaactat aggtatcaaa tgccaaagac gagtacntgg cgtgaacatg 420  
gtggacttga ctttgtattc agcttgctgg agaaaatttc atcgancatt ggggtgtaaa 480  
agacagtttc cttcanaata atcagactct cggttc 516

<210> 5360  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-G8  
  
<400> 5360

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aagatacagg gtttgttggg agtgccttgt cgagtaatat gataagattt ttcaagaaca 120  
gtgatgaaac atggagccat gaggttggtt tatcgggtta accgttgaaa gtcgaaaact 180  
ggatacttcc agaaatgccg gggctaata cagacttctt gatctccctc gatgaccgat 240  
ttatttactt tgtgaactgg ctccatggag acattcgtca gtacaacata gaggacccta 300

aaaacccctgt attaacaggg caaatttggg ttggaggatt actacaaaag ggcagtccctg 360  
 ttaaggcggt tggagaagac ggnaacactt tcaaattcga ggttcccaaa ttaangggga 420  
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<210> 5361  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-G9  
 <400> 5361

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 cancattgaa gaaccagctc attatctcaa ctgttattat gactgttggg attgctattg 120  
 tgtcatgggt tggcttaccg acctccttta ccatcttcaa ctttgggaaca caaaaagttg 180  
 tcaagaactg gcagctattc ctttgtgttt gtgttgggtc ttgggctgga ctcatattg 240  
 gtttcgtcac tgagtactac actagtaacg cctacagccc tgtgcaagat gttgcagatt 300  
 catgcagaac tgggtgcagct accaatgtta tcttcggcct tgctcttggg tacaaatccg 360  
 tcattattcc aatctttgct attgctatca gtatattcgt tagcttcagc tttgctgcta 420  
 tgtatgggtg tgctgttgct gctcctggta tgctcagtac caatgccact gggttgggaa 480  
 ttgatgetat ggcccatca 499

<210> 5362  
 <211> 538  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-H2  
 <400> 5362

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 gctcctcaca caacggagtg atgggggtctc tcgttcgtga atgggttggg tttcagcaat 120  
 ttccagcagc taccagga aagctgattg aattcttcgg aaaattgaag caaaaggata 180  
 tgaactcaat gacagttctt gttctgggta aaggcgggtg cggaatatca tccactgtca 240

attctcttat cggcgaacaa gtcgtccgtg tcagtccttt ccaagctgaa ggattgagac 300  
cagtgatggt ttcaagaaca atgggagggg tcaactatcaa cattattgac acccctggga 360  
cttgtggaag ctggatatgt caatcancaa gctctcgaag ttaatcaaaa ggggttcctt 420  
ggtgaacaag aaacaaatag aatgtccttg cccnaangt ttgattcggt ttgggatgtg 480  
gtataaaaag tccgatgaac ctaanattaa gccagnttt gttaataanc aaatcacc 538

<210> 5363  
<211> 507  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-H3

<400> 5363  
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gggaaaaaag aacaacgtcg tttatagcta aagattcgat catggttgat cttaacctaa 120  
agatcttttc ttcttataac gaagatcaag atcggaaagt accattaatg atctcaacca 180  
ccggtgaaga agaatctaac tcctcttctt cctccacaac agactctgca gcgagagatg 240  
ctttcatcgc ttttggaatt ctcaaacgcg acgatgacct tgtnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnaa agaaacagga gatctctttc cgggtggtggc tgatgctcgt cggaatatag 360  
aattctccgt ggaagacagt cactggttga atctttcttc ttacaaaaga aatacacaag 420  
aaaatggtga agaagagcag aagaggacca aggtctcgta gctccaatat cgtggcggtca 480  
ctttttaccg tcgcaccggt cgttggg 507

<210> 5364  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-H6

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nnnnnnnnnn nnnnnnnnnn atttgaagtt tgaagtgaag aaacaatttc attttgcggc 180  
gacgaattcg aattttccga tcgatcatgc cgtccggtgc nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccatggaa 300  
gccaaagatgg gaggggaagt gatagcagtt tgagttctcc tggttctcaa ggaaatcaag 360  
aatttgggac taaaagattc acctgctcct ccaacctccg ctgtggtgaa aagggcctcc 420  
taaagagata tcctaaagat gcaagnnta ctcaaggac taaganccaa aactg 475

<210> 5365  
<211> 514  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-H7  
<400> 5365

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gactttttgc ttctcccaga ggctaatacat ggacgctgtg gcggcgaatt tgtttcaatc 120  
tccttccctta ctgctgcaaa cttccgaaag gttgatattt tcgacgccca actgtcctgg 180  
cttcatgcga attagctccg gacctcaatt tcgtctcaga caaaactctt ctcttaaatt 240  
ctcgagacca tttcaaagcg gaacaacttg tggttaaattc cggagaagct ttgtgggttaa 300  
agcttcagct tctggtgatg cttcaacaga atcaatcgcg ccgcttcagt tgaagtctcc 360  
tgtgggacag tttctgtcac agatattagt gagccatcct catcttggtc cagcagctgt 420  
tgaacagcag cttgaacagc tccaaattga tcgagacgct gaagaacaag agtaaagatg 480  
catcctctgt ccttggnaca gacattgttc tcta 514

<210> 5366  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-G1  
<400> 5366

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acggggttgac cgggttcaagc ttggggaagg cgttatgcc a gcgagtttca aggtgcttca 120  
 tgatccagtt cgtaaaaccg acacaattat tgcggatttt ggagaaagcg ctataggaag 180  
 agtagcaccg gtggattcag gattctggtg gatcatactt ctccgtgctt acacgaaatc 240  
 tacgggagat ttgactttat ctgagacacc agagtgtcag aggggaatga ggcttatact 300  
 ctctctttgc ttatccgaag gttttgatac tttccctacg cttctttgtg ctgacgggtg 360  
 ttctatgggt gatangagaa tgggtgttta tggatatcca atagagattc aagctctgtt 420  
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<210> 5367  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-D3  
 <400> 5367

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 tcttcggagc tggcacttct gcttatcagt gggaaggagc tgctgcggaa gatggaagga 120  
 aacctagcgt gtgggacact ctttgttact ctcgtaacat tggtaacgga gatgtaacat 180  
 gtgatgggta tcacaagtat aaggaagatg tgaagctgat ggtagacact aacttagatg 240  
 ccttcagatt ctctatatct tggcttaggc taatacctaa tggaagaggc tctgttaacc 300  
 aaaagggctc acagttctac aagaacctca tcagcgaatt aataaccca tgggattgaa 360  
 ccacatgtta cactgtatca ctacgatnat cctcaagtat cttgaaggat gaatattgga 420  
 gggatgggtc aacaatatga tgatnaaaag acttcactgc ntaaggtana tgtttgttca 480  
 a 481

<210> 5368  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-D5  
 <400> 5368

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ctgtagtaga tctgtactct ccctttttct ttgtagagaa gaagagaact gtgaaagaag 120  
atgaagattg aggaggatct aggtttcatc aacatactca aacgagcaac aaagcttcta 180  
tgtggtaaca tcaatcttgt tctcttcctc ttcttttgct ctctccccct cttttgtttc 240  
ttgatcttct tcgagctttc actccaaacc actgtctcac tcgcttctca atacctcgtt 300  
cgacaactca ctaattggga ttactactac gttcctcaag atgcttccgt cttggagaat 360  
ctgattccat tgcttatcca agacatttct actctacttg ttcccgtacg gcctcataga 420  
cctcttcaac aacaacacaa taagtcctcc gcacctgga ctgggtcaaca cgttcn 476

<210> 5369  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-D6  
<400> 5369

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caatcgccgc ttgttcagtg catcaccaac ttcgtctcga tggatctcgt tgccaacacg 120  
cttttatccg ccggtgcac tccagcgatg gtccattccg tcgttgagat tcttgatttc 180  
actcctcata ttacgcgct ctgcgtcaac gtcggaacac ttacacctga ctggcttccg 240  
tcaatgaaag ctgccgctga actcgttct cagctccgaa agccttgggt tcttgatccc 300  
gccgccgtga gttgctccg attccgatta aaagcgtgtt tggagctcat cgagctaaaa 360  
cctactgtaa tcaaaggaaa cggttctgan attaatgtc tctcctctgc ttcacgttgg 420  
acaaaactaa aggtgctgat aagctcacat gaatcaacan gacgctataa gaagctgcaa 480  
agtc 484

<210> 5370  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB23-026-Q1-E1-D7

<400> 5370

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ccacataatg cacaccatag agagatagca atttcgataa gcaattacac attgaagcat 180  
ggatgatacgg gtttgggttat tgttggtgga cggatggaga tgcagccata taatcacatg 240  
gacccatttg aggaacttgg catgacagca caaatgctg atcaacacag aagaagtgct 300  
actgagaatc aggcctctga agattctgga gccataaact tgcgtcactt ttctgtctat 360  
gcatttgctg gcaagactgg ccttcttcga tggagtaaaa agactgatga tgttgaagct 420  
cacacctcag atgcatcaca attaattcca caacacaaat tacaagctt gat 473

<210> 5371

<211> 505

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-026-Q1-E1-D8

<400> 5371

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ttttacgacc cgaactcagg acaagtttta ctagatgggc aagacctgaa gacgctgaaa 120  
ctgagatggt taaggcaaca gatagggcta gtgagtcaag aacctgcatt attcgccact 180  
tctatcaagg agaataact cttaggccgt cctgacgcag atcaagtcga gatagaggag 240  
gctgctcgag tcgcaaatgc tcattccttt atcatcaaac tacctgatgg cttcgacaca 300  
caggttgggg agagaggatt gcagctgtct ggtgggcaga agcaaagaat ancgatagca 360  
agagcgatgt tgaanaaccg ggcgatactt cnattanatg anggcgacca agtgcattgg 420  
nttcnggatc canaaaacnt tgtanaaaag ggtttggttt gtttcaagat tgggagggct 480  
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<210> 5372

<211> 467

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations



<223> Clone ID: LIB23-026-Q1-E1-E1

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ttggtgaggc cattcttggc ttttcttcca gaagtgcaaa gtgctgacag gaagattcca 180  
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cttctctct atgggatcca ttctaccacc ggtgctgac cgttctattg gatgcgtgtc 300  
attctcgcat cgaatcgtgg aacggtgatg gagcttggtt ttactcctat tgtcacatct 360  
gggattagtg atgcaactct tancaagggtc aaagattant gaggntgaca acaatgttcc 420  
gtgaaggatt gtgccccent gaatggtgct caaaaagctt cntgggg 467

<210> 5373

<211> 517

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-026-Q1-E1-E3

<400> 5373

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gctccagtg ttctcaataa tggcgaaatc tctacacttc acaagactaa tgtcttcttc 120  
agcaagaatg tcaatgactt ctctctctct cttctcttca gtcaaaccat ggagaaacat 180  
ccataaacc tacttggctt ctctcttct ctcacaaca tctactcgat acccacttca 240  
atacgacatg atcatcaatc gtccacaca atcatctctc tctcaaaacc gtcgtcgtcc 300  
ccctaaagcc atcgaatccg gtgcacctga ctgagcagag ccggaattcg attcatgggt 360  
cgacaatana ctgggctatg gagcgtgaac agggtcgacc cggttctggg agattcggga 420  
aatgggata aaagccaaag aaggaaatac tacagtttag gagaaaggan gaagactata 480  
cggggtcctg aanttctgaa agaatgaaga aacaagt 517

<210> 5374

<211> 483

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-E8

<400> 5374

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 aagaaatggg tatgattaga tggatggcat ggaggaaaga agatataatcg tcctcggtcg 120  
 attttcgctt ctccaaagac ccatttgggtc ctctggtgct ttctcgagaa accgattcga 180  
 gattcatcat catcattcat cttaaaggat tcaaaaagga aggtattgaa attgatataa 240  
 acgaagaggg aaataggatt acaattagag gaagaaaacc agtggagaa atggtatgat 300  
 tagatggatg gcatggagga aaagaagtgg aatttaatgt tttcaagaaa gtttttaagg 360  
 attcctgata ctgtcgattt agacaaagat taaagcnaag nttgatgacc aatgatccga 420  
 ctctttacga tttacaatgg ccgaaaagat taaaangga ccctgggat ttaagaattg 480  
 ngg 483

<210> 5375  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-E9

<400> 5375

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 cacacgagtt cgtcaaggct tacgtgccc atctcaagcg ttccggcaag attgagctgc 180  
 ctctgtggac agacatcgtc aagactggta aacttaagga gcttgctcca tatgaccctg 240  
 actggtacta catcagagct gcttccatgg ctaggaaggt ttacctgagg ggtggtcttg 300  
 ganttgggtgc cttccgtang atctatggag gaagcaagag gaacgggaag ccgtcctcct 360  
 catttctgca aagaagcant ggtggtgttg ctctcacat tcctcaagca actccaagac 420  
 catgaancat ttgttgacct ccacaacaaa ggggtgggaa aggaaaa 467

<210> 5376  
 <211> 469

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-F1  
  
 <400> 5376  
  
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 aaagctatatt tccggcttgg tttcttcagc accaccaatg gttcctccaa ttggtacttg 180  
 ggtatctctt acgcttctat gccaaactccc acccacgttt gggtcgccaa tcgaatccga 240  
 cccgtttcgg atcctgactc ttccactctc gagctcacct ccaccggata cctaatacgtc 300  
 agtaacctcc gtgacggcgt cgtttggcag acggataaca aacaaccgg aaccgatttc 360  
 gggttctctg aaaccgggaa tcctgatttg attaacgacg acggttcccg ggtttgnaaa 420  
 actttgacaa tccgacngaa acgttggnntt ccgggatnat gtcacgggc 469

<210> 5377  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-F3  
  
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 cggaactgga gccgttccca tcaattatct ccaaagcgcc gtcgctaaag gagccgtgtg 180  
 tttggatggg agtgcaccag cttaccatct tgacaaaggg tttgggtcgg gtgttaacaa 240  
 ttggatcgtc cacatggagg gaggaggatg gtgtaccgac gttgcttcat gtaatgaacg 300  
 taagggtaca atgaanggtt cttccaaatt catgaacaaa gactttggat tttccggtat 360  
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<210> 5378  
 <211> 501

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 ataagatttc gtatgatctt gtggaaactg atgttgagat catcacctcc ggtcgtcgta 180  
 gtattccggc aactccggc atcctcgctt cgggtctcacc ggtactgacg aacatcatcg 240  
 agaagccgag gaagattcac ggcggatcat cgaagaaagt tattaagatt ctcggtgttc 300  
 catgcgacgc cgtttcagtc ttcgtcagat tctctatttc tccgagtgtc acggagaatg 360  
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 gggactcaag ttaaagcaaa cgggggcaac taaaanggcg tccggttaan aagaattaac 480  
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<210> 5379  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 cgcatttcag tttcttaaac cctaagcctt cggtaacagt atctcgaacc cttttctcat 180  
 tcgcgtctaa atcgaatctc gccactgttg aaccataacc attatcggtc tcagattcaa 240  
 ccgatttgga tgatgcacct gtcgagattg cgctcgacaa gctttttatt ccgccggaga 300  
 ccgatataac cggatgaagac tcggcgagtt taacgacgag gataacttaag gggtcgaata 360  
 ttgtgctgag caagtacgcg agggacgcac aggtggttca ngctgattat gtgaagagta 420  
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<210> 5380  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 5380  
  
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 cactgaatta ncagattcaa ttcgcagtat ggattgcaag gcacgtctat gaaaaatcct 420  
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 aattatatct cataccaaaa aaaaaacaca accaagagaa agaggcgtaa ccttctgatt 300  
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 attttgttgt cccttcaaca atccatcaga agtagcagtt tggtttccaa gttaagttcc 420  
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 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5382

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atccttcgtc cttcctcngg agattttctca aatctcntca antattttga tttgccgcca 180
tgtatcgacg cgccacttcc ggcgtgcgtt cggcctccgc aaggctttct tcttccctct 240
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atcagacgaa ccgatctaag agtttctcct cggtctccg ctcctttnga agtttgctct 360
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 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5383

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tagccagata tcaaaggcta aggaagaagc atttagtaga aaagatatat tggaccgagt 360
cgagaaatgg atgtcagctt gtgaggaaga gagctggcta gaagactaca atcgggatca 420
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gaacaagtac aacgcaagca agangtgcac acttgaatct caaagaagaa ctgagaaaac 480  
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<213> Arabidopsis thaliana  
  
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tacaagccac ctgtcacgtg tcgtgtcccc ttcgcaactt tcatggaaca ctctcgtttg 180  
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gacgcggcta gaaacgaagn tcagatgggt atcttcgaag gcatggacga tctttcaaga 360  
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<212> DNA  
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ggctttgtgc cccagtctaa atcagtaaag gagaggtttc gtcctatgcc tatgtattcc 180  
cctatcttac ttctgtgcc acatgcgctg gcaactgcga tgattttaca gttaggagtg 240  
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ngggaaccct gttcgtgccc cgaaatgccg gttgaagata ctaagaaacc ttaacnggaa 420  
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 agttcacaac aagtgggtgac gtggcggagg tgatagagga gcttcgaacg gagaacaagc 180  
 agttaagag agccgttgaa gatctccggg aagtaatatc aaacgtccgt ccatactcgc 240  
 cggcgacaat tgattacgga tcacactcga agtatcgca atccgagagg nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ggagatcgag agctgatcgg tggagcagcg 360  
 aagaagaacg acaaacgtcc tgattacggt ggggaagaaa agcaanggaa gaagggcaat 420  
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 gtcgagtctc gaagatatca agaacgagac tgttgatctg gaaaaaatc cgattgagga 180  
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 gattcagatc ttggcccca acaagctcga agagaaaaag gaaagcaaac ttctgaagtt 300  
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tgctttggca aacggtaatg gaagngcccc cgggattgnc aggatttngt tgggaaaacc 420  
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 cgcg 485

<210> 5388  
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 atcggagtag gatagtcagc cagcggtacg gttcatgtgt acttttggag gaaggatctt 180  
 gccacgtccg ccgataatc agctctgtta cgtcggcgcc gataatcgca tggtcgctgt 240  
 tcatcgtagc actactttcg cctctctcct tagtaaacct gctaaactct ccggtaaaag 300  
 caacataagc gtgaagtacc agctaccaa cgaagatctt gacgcgttga tttccgtatc 360  
 aacggacgaa gatgtagaga acatgatgga cgaatacgaa cgcgtcgac aagaatcaaa 420  
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<210> 5389  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 cgattcacgc ataaactagg gtccccccac aaatcatctt acacgtatcc tctattcctt 180  
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 ttattacttc tctcatcaac caattgtacc actagatctc ccagattcct tcattatctc 300

tatcaataat ggcgttgaag tctagttctg ctgatggtaa aaccaagaag ctctgttcaa 360  
atcttcaatg gtgtttaant taatggttgc cttcctttac aattttgggg aagcaatggc 420  
aaacgaaant ggggttttgg gtaaaaagga gaacaagtaa ttggctcctt ggagaatgaa 480  
ccaaacaagt ggg 493

<210> 5390  
<211> 518  
<212> DNA  
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atgacaaggt caagagaatg gtcattcctg atgctctcaa ggtgttgagg cttcaggctg 180  
gtcacaagta ctgcttggtg ggacgtttgt cttctgaagt tggctggaac cattacgata 240  
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agcaactcac caagctcagg gcaaaggccg agaagggtgc agaggagaaa cttggatccc 360  
agctcgatgt tcttgcatcg atcaagtact gaagaaaatc agcatctatc ttttggttta 420  
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<212> DNA  
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<223> unsure at all n locations  
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ccttccgagg catacgctc ctctactact tcaatcccgc cgcttatcag cgacaaatat 240  
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catcaagact ctaatctcat atatactggc tgcatagatg gatgggggtga aacgaagtca 360  
gtgttcaacg actcaagcta atggactcaa ttcgtttgag ggattgggtc aataacgggt 420  
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aacgagttcg cttacaatgt gatgatacac gggcatttta aaagaggcga aatttcgctt 180  
gttgaagcat tctacaatga gatgttgaga aatggctatg gaggaacaat gttaagctgc 240  
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aagaatatgt ctgaaaccgg ggttacaccg aatgcaatca cgtataacgc tttgataaaa 360  
aggattttgc aaagaaaaca aagggttaaaa aaggcttgaa actatacaaa ggagccttaa 420  
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<210> 5393  
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<223> unsure at all n locations  
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gaacaagata agttgagtca tcaaatgata aatagcataa agcttcatgg cattctccta 420  
aggggtttcc atgggctttc ttaagccaat ggg 453

<210> 5394  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
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ggttatcaaa agctccttaa actataatca gaaggagctt tccagacttg gagtcgccaa 240  
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ggccgntctt cntgttggcg ncgttcanaa acccaaccgt tacngntggg tttggcttaa 360  
cgtcaacggt cnaagccga ttcttcctct aagggtacg tgtggtctcc aaggccttgg 420  
gaacaatggg gagaccn 437

<210> 5395  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tctctcacca tgggtctgac caacgtggat ctttaccage tttctctgga ctcaaatcca 180  
 ccggttcacg cgcctcagct tcgtctcgtc gacgtatcgc tcaatccatg accaaaaacc 240  
 gatctctccg tcctcttgtt cgcgctgcag ctgttgagac tgttgagcca accactgatt 300  
 cgtcgattgt ggacaaatcg gtcaactcga ttangttttt ggctatcgat gcggtggaga 360  
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 tgaggncatg aggtataacc ccaagaaccc tt 452

<210> 5396  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 cggcgttant ggaatcgtcg gaaacagctt ggcnagagatt ctccctcttt cngananacc 180  
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 tcatccgatac gattacatcc agtgcgatgt ctccgacgcc cgaagacaca agattcaagc 300  
 tttccctctt aancgatgtc acacatgtct tctacgtnac ctggaacaat cgtgaatcgg 360  
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<210> 5397  
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ttccgcaact gttgaacatt acagaaggaa aaccgcgata agccaaggac tcgcaaacga 180  
 tgccaaactca acagtgaagca tctcagcaat gtggcttgta ccacagtatg tactacacgg 240  
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 aagcatgtcg agtatcgcag cttegttggtt cggctctanga atggcagtgg ctaatatctt 360  
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<210> 5398  
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 <212> DNA  
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 aagccagggtt ctgatttaac tcttggaat gcgagagagg aagatgaagt tcccaataga 180  
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<210> 5399  
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 <212> DNA  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 gcaaagagag ctacaattga gttcaattgg tgcggtcgcc attttctcct ggatttcttg 180  
 cacatgtatc gactagactt ggaaacaggt gtaaaaaccc agcttgcttg gattgatatt 240  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-A6

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cgtcttctcc gtctctcgtc cgccgatttc ccgctcgttt ttctccgacg ggttctagaa 180  
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<210> 5402  
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<212> DNA  
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caatctgtct agctgaggac tttcagggat tctaccttta agcttgttgt tacgcaaadc 180  
caatgtattc agctcgttta gcttggataa cgttttcggg atttcgccag tgaggttgtt 240  
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aagagaactc gttgttggn aattttaaaa cctttangct ttgagattgc ctaaagaaat 360  
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<210> 5403  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-B1  
<400> 5403



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gaaatttcta tcttccattt ccatctgatg aatctctgac gatgtctttg agaactcgag 120  
catcgtcatg gcctcgtctt ctacttcgcc ggaaccctag atcttcattt tctcgtcaga 180  
tatctactct cgattcctca acatcaacat ttcccagaag aatctccggt tactactcct 240  
cctccttctt tcccgtaaat caaacgccat ggatctcatc tcagaggtag cgtttcttct 300  
cctcaagcac aatgtcacca tcggaagctg atagagtagt gagagaactt atagcagagg 360  
ttgagaaaga gaagcagcgt gagagagagg agagacaaag acaaggactt gattacaaag 420  
acattgatgc cgaagacgaa gaagattact tagggattga gccgtttatc gaagaagcgt 480  
aagaagcaga atttgaaaga tgatgggtga attaaataag cg 522

<210> 5404  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-B10  
<400> 5404

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atttcgttca cgatctccag ttagatcaag agaaagatca gatgggtcat cctcgtcttt 180  
caggaataga tcacaggaag agttcagtgg gcatacagac ttttctcatc gaagatcacc 240  
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ggttgtcaga agacacaatt ctccaccttt ctgcgataga ccatcgaatg ctggaagggg 360  
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ctcaatttag gaaaccatcn gtt 443

<210> 5405  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-B11

<400> 5405

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tttttgggtg tagcctttgt cttctacctc tacagatacc cttcttcgcc atcgacgggtg 180  
gaacaatcat ccacttccat ctacaacatt tccgttaagg atattgaagg gaaagatgtg 240  
agtttgagca agtttaccgg gaaagtgctt cttatagtca atgtagcctc taagtgtgggt 300  
ctaacacatg gaaactacaa agaaatgaac attctgtatg ccaagtacaa aactcanggg 360  
tttgagattt tancatttcc cttgcaacca atttgggtaa gtcaagagcc aagcaagcaa 420  
catgggggatt aanggaaccg ttttgcaata atctnaaagc 460

<210> 5406

<211> 516

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-025-Q1-E1-B2

<400> 5406

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gtacgtcgga tccaaaaaac gcgcgttata taaacgctta atttctccag gattcttctt 180  
ctgcttccgc cattgctcga aaatcgcgtc ttctgacaat gtgctgaaac tgagtcatcg 240  
tccgagtttag caaagtgaaa cttcgaagtt tctcttacac taatctcagg tttgggattt 300  
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ttcgtttagta ataatgaaca canaaggact gtttgtcaat attacatttg ttcgaaacgc 420  
aatcgcnaaa ngggccgttt gtttagatng aaantcacca tcttancatt tggntaaang 480  
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<210> 5407

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-024-Q1-E1-G11

<400> 5407

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taaaactttt taattccgat aaaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa 180  
gcttacgtac gcgtgcatgc gacgtcatag ctcttctata gtgtcaccta aattcaattc 240  
actggccgtc gttttacaac gtcgtgactg ggaaaaccct ggcgttacc aacttaatcg 300  
ccttgacgca catccccctt tcgccagctg gcgtaatagc gaagaggccc gcaccgatcg 360  
cccttccaaa caagttgcgc aancctgaaa tggcnaatgg ggacgccgcc ctggtaccgg 420  
cgcattaaag ccccgngggg ttgtggtggg taaccccaan cgtgaa 466

<210> 5408  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-H6

<400> 5408

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gccagcttta ctttcatcta cgggtgtctgt cttctacttg ctgcctatct catgtccgtt 180  
atgcttantic aagatctggg cgttggttagc cacaacgtaa tcaactgtgt caccattgtg 240  
ttgtttgtca ttentgttgt cncaatcttg ggtccaatca tgataagttt cttcacggag 300  
acaaacganc ctgatgacac aatagaagaa cctcttgtcc aaaacgagat naccatgaac 360  
caggactgca aacacctgat cnaatcttga gtgaantgga anatgagaag ccaaaagatg 420  
tagatttgc tctgcctca ngagagacat aagaagaatt gccattt 467

<210> 5409  
<211> 449  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-H9

<400> 5409

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gtcgtctctc tctcttgtt tcgtccgatt ccagttcccc tctcgctta gactcgcttt 180  
tgccgctcac cctctctact cttcttctag agccatggct catacaatct cacacgctac 240  
tctcggntc actcaggcta actccgctga taccctaaga tctcattttc ggggaaggag 300  
atcgacgtga cggaatggaa aggtgatata ctcgctgttg gagtgacgga gaaagacatg 360  
ggtaaaggat gtgaactcca agttcgaaaa ancccgantc tgaagaagct tgatggccaa 420  
cttggggggg gcttttaacc gaagtcgcc 449

<210> 5410  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-024-Q1-E1-A11

<400> 5410

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tggatcctcg gatgtggcac aaagtcgccg ctatttcggg tatggctgct cttggtttgg 120  
gaacttatgg tgctcatgct tttaaaccag agaacccttc ttacaaacag gtgtggcaaa 180  
cggcttcact ttaccatttg gttcacactg ctgctcttgt ttctgctcct agcaccaaatt 240  
atcccaacat ttttggtggc ttgttgactg ctggaattgt agccttttcc ggcacgtggt 300  
atatggtagc gctgcgggag gacagaaagt tttcgacatt ggcaccaatc ggaggcttgc 360  
gttcaatgct gcatggggca actttacttt ccaaacaatc ccataaccaa tctataatgt 420  
caaatttgn ggtcaagcct aaccaacat atgaactcac t 461

<210> 5411  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-024-Q1-E1-B10

<400> 5411

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agctctcaca gaaactacgc tgtgcgtaga gatatagcag atgcaagaga attttgtgtt 120  
tgcttcatct gtccagctga aaacgttgga ggtgtgattg gaaaaggcgg tggtttcatt 180  
aatcagatca ggcaagaaac tgggtgctact attagagtca atacctcaga aactgatgat 240  
gatgattgca tcattttcat atcatcaaaa gagttctacg aagatcaatc tccagcgggtg 300  
aatgcagcaa tacgcttaca acagcgatgc agtgagaaaag ttggtaaaga tgcaaagatg 360  
ttagcaatct cctacgcggt tacttgtatc gagttcccaa atcgggggtgt ctcantggna 420  
aaagtggagc aattatatct gagatganga tgttacaag 459

<210> 5412  
<211> 451  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-024-Q1-E1-B11

<400> 5412

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tgattcgctc cggccaacga acttggtttc cctgcgaacg ggaaataaac gttcgtcatc 180  
gtcttcaacta cggctatttc tctctccgac tagaagcgct ctccgtacgc cgactatttc 240  
cgcgaggagg gtgaaagatg tcccgatgcc gaagattgat aagagcggcc gattaagcag 300  
tcctcgagcc gcacgcgagc tcgctcttgt aatactttat gccgcatgct tanaangntc 360  
tgaccaattc gtctcttgag aanagaataa acgcaagaaa gaaaacctgg atacaanttg 420  
acaanaattc ttgntgggat acaaacacat g 451

<210> 5413  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-024-Q1-E1-B9

<400> 5413

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tttcattcat cgaatctttt tccgataact atggctgagg aaatcaagaa tgttcctgaa 180  
caggaggtgc caaaggtagc aacagaggaa tcatcggcag aggttacaga tcgtggattg 240  
ttcgatttct tgggaaagaa gaaagacgaa acaaaaccag aggagactcc gatcgcttca 300  
gagtttgagc agaagggtca tatttcagag cgggagccag angttaaaca cgaaaagtcn 360  
tcctgaaaaa gcntcaccga agcgacaant tcttctaact cctcaagtta aggaagaagg 420  
gtcaaatggt gagaanaagg aagaataaga agngnaaaga 460

<210> 5414

<211> 464

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-024-Q1-E1-C11

<400> 5414

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ggtttcttca tccttttaggg tttccacaaa aattcaaaac ctacttggaa atatttgggc 180  
ttgaagaagg aagaattaga tggaaggaag aaggattacg gcaagcccta gacctttag 240  
tggaagaaga attgtggcta agaaaagggtc tcgacccgat ggattcgtca acagtgttaa 300  
aaagcttcaa cgaagagaaa tctcttctcg taaagatcga gctttctcta ttagcaccgc 360  
ccaagagaga tttcgtaaca tgcgtctcgt ggagcaatat gatactcacg attcctaaaa 420  
gggcactggt ttaaatttgc aattaccgtt ttttgatgaa aan 464

<210> 5415

<211> 509

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-024-Q1-E1-C12

<400> 5415

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gcgttattgg agcactgctt taccaaacac tccattccc aactctctct ataatctttt 180  
gactttcgat tttaccgacg ataanagtac caacntcnaa gtaggtaaaag gcggagtaaa 240  
cgttaacacc cataaaggta aaaccggtat cggaatcgcc gtgaacgttg gcaacggaag 300  
tgtactcgtg gacacangca aaggggcaaan cccggatgga acggaacaac aacgttaacc 360  
gtttggcaan ccggaaaaaa ggtcaaccgg aaggtgggcn ttcgcaantt caaaaaccgg 420  
ggtnaaaanc ccnggttaaa aagaaancng acntttaggg aattccggtt taaaagggcc 480  
ggttntttac cgggtggcaa caaagcccc 509

<210> 5416  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-024-Q1-E1-D10

<400> 5416

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ttctgatacc caaaactttc catttgggat agtggcagaa ttagtggaag aagtaagcat 180  
gagcagggtc gagcatgtat tgaactatct gaaacgtagg cagctcgaga atcctggttt 240  
cttatatgca attgaggacg attgtgggaa tgttttctgg gcggatccaa cttgcagggt 300  
gaattacacc tactttggtg atacctagtc tttagacacca cctataggag gggtaaagan 360  
gatatcaagt caatttgctg ccttcaccgg gttcaaccat catgggaagc cggtcctttt 420  
tgggtggtgc nccaaaatca acgaatccga ancccc 456

<210> 5417  
<211> 457  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-024-Q1-E1-D11

<400> 5417

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ccatgcccta ttgatccttc tcagagaatc tcgaatggca tgtaaagaga tgccttttac 180  
ttaaacaac tgtagaattg tctgggtcaac gattttatca gaagggatt aatgctggga 240  
acgacgaana agaagaaaag atgggatctt gttctcttgt tacttcagag atgaagagaa 300  
atctgctcta tagtatgagt gtttctaagt ttcacagct tattaagaaa attgaggatg 360  
ttcatggcgg tattttgtta aagatatcca aaatcctaa ttgcaacct gaaacctgtt 420  
acataagggt taataaggnc atagttagaa attacca 457

<210> 5418

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-024-Q1-E1-D9

<400> 5418

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tgtgactgga gccttgcata ttggccatgc gcttacatct gcaattgagg atacaattat 180  
tcgttgggaag agaatgtctg ggtataatgc tttgtgggta cccgggggtg accatgctgg 240  
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tgatgttggc cgtgaagaat tcgtaaagga agtgtggaag tggaagaacc agtacggcgg 360  
tacaattcta acacagctac ggcgactaag aaccttctct cgactggtcc ccgtgaantg 420  
ttttacaatt ggacnaagca aaagattaaa aagctgtcac tgaaggcc 468

<210> 5419

<211> 443

<212> DNA



<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-024-Q1-E1-E11

<400> 5419

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tagtttgcgt aagcatgttc attccagtgg acttcacaag aagatcgaac tggtcatttc 180  
gtctccactg atgagaacct tgcaaactgc tgttggtggt tttggtggag agggctacac 240  
ggatatgagt gatgtactac ctctaattgg agcaaatgca ggaaatagca gccgtgcagc 300  
tatatcgagt ttaaaactgcc caccagttat tacagaggag tcctgcagag agcatttggg 360  
aatgcatcca tgtgatcaga ggagaaatat cagcgactat cagtttcctt tccctgcagt 420  
ttgactttca ctgatagaaa ncc 443

<210> 5420

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-024-Q1-E1-F12

<400> 5420

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ttccccgcct gaaacaatta ctcgatctcg ccggcggaac aagctctccg tttctcnttc 120  
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tttcttcaaa atctgcattt atggcgatta gggttacctt cacctactcc agctatgttg 240  
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tcgaaacatg ggttcgtccc aggttctgct gccacaatca gataccagat attgttgata 360  
aatctnccgg attcaacaca tgggggtccaa acncaaggcc tcgtgctcga caacttcac 420  
aatgtatagc accaatgcga aggaaaacct cgaag 455

<210> 5421

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-023-Q1-E1-H5

<400> 5421

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ggtttgatga tgaacttcta caangacacg tgtcctcagg ccgaagacat cgtccgtgaa 180  
caantcannc tcctctacaa acgccacang aacaccgctt tctcttggct ccgtaacatc 240  
ttccatgact gngccgttga gtcattgtgat gcgtcgcttt tgctggattc gacaaganga 300  
gagctatgat aagaaagaac actacaagga gcttcggact taagaaactt ntacgtacat 360  
cgangaagat naaagggaag ctctcnaaga agggaagtgt cctgggtgtt ggccncaatg 420  
ttctggacan tccccgtccn tgctcngcaa agaagaaagg naatccaa 468

<210> 5422

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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<400> 5422

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tgtgactgtt ggtgatggtg ctgttggtaa aacctgtatg ctcatctgct acaccagcaa 180  
taaattcccc actgactaca taccaacagt ttttgacaac tttagtgcaa atgttggtgt 240  
tgaaggcacc actgtcaatt tggggctttg ggacactgct gggcaagaag actataanag 300  
attaaggcct ttaagttaca ggggagcaga tgttttcgtc ttgtctttct cattagncaa 360  
ccgagctanc tacgagaatg tttttaanaa gtggatccct gaactccaac actttgctcc 420  
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<210> 5423

<211> 481

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-023-Q1-E1-F3

<400> 5423

acgcgtccgc ccacgcgtcc gcccacgcgt cgcattgcat tgcctgcaat gactatgtag 60

ctcttgccca caccgatctt gataaggaaa ccgaggaaat aatagcggat gtacttggcg 120

ttgaagtttt ccgtcagaca attgcaggca acattctcgt gggcagttac tgtgccctat 180

ccaacaaagg tggaatggtc catcctcaca cctcagtggg agacttggaa gaactctcaa 240

cacttcttca agtccctctc gttgcaggaa ccgtgaaccg tggtagtgaa gttatcgctg 300

cgggtatgac cgtaatatgat tggacctctt tctgcgggtc agacacaact gcgactgagc 360

tctcctgtca tagacaagca tcttcaagc taangaaac ccaanccaac tctaacctca 420

atgagatgaa ggaaatcaat tgattcgaaa actaangttt aaaatttgn tggtttggaa 480

t 481

<210> 5424

<211> 498

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-023-Q1-E1-F5

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ccccgaggca tctgaattcc ttggaagcgg ccgtgtgaca atgatgaaga ctgttgccaa 180

gccaanagggc ccatcangca gncatggta cggatctgac cgtgtcaagt ncttgggtcn 240

attctctggn gantcantga anctaccctt atcggagaat ttccccggat actaacggat 300

gggaacaccg ccngacttta agctgnaccc cnagaacatt ccaaagggaa ccgtgaacta 360

taaatttatc cacagcaang gtgngccaat ggctccggaa nccctaangc tgcngtcnt 420

ccntaagcc ttttgggcta agaaaacngn ntccaagntt cggaaantgc gggtttgggt 480

caaaggccgg gttcanaa 498

<210> 5425  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-F6

<400> 5425

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caagatcaag aaatccctaa acaaccctta ccacctcgcc tcatgggatc ccaaaaccga 180
ctgttgctct tggtagtgcc tcgagtgcgg cgacgtact gtcaaccacc gtgtcacttc 240
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gtatcttaca tcccttatct tccgcaaact cactaacctc actgggtcac atccaaccca 360
ctatcgccaa agctcangaa cctcactttt ctcagactaa gctggacaaa tctcaccggg 420
tccggttcct gagtttctga gtcagctcaa gaatcttgag tacattgacc t 471
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<210> 5426  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-023-Q1-E1-F7

<400> 5426

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tgaatctatc agtttcttcc aatttcactc accgatcact cctcgaatca cgatttccta 120
tattctccac cggtattccgc aaatccgtca atctcaaacc tccccgtgtc tcatctgggtc 180
ctgaatccaa cgattcaggt caggaacct taaccgataa gcttatccat ctctcagag 240
ctgttccaga ttgggcagac gagattaaag agcgtgggat gcagcaagaa acgctctctc 300
tacacacacg agaaatgggt tgaacataga agctctcttc gccatgtgcg tcatctactc 360
tcgagctttt cttcacgagt tatactctcc ctggattcca cctgtttcct cctcacaag 420
cgtcgcgggg tgtgattggc aagctaacaa ctcccgccgg tgggcttggg attgggc 477
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<210> 5427  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-F8

<400> 5427

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gatcggagcc ggaccagccg gtctcataac gtctagggag ctccgtcgtg aagggtcacag 120
tgtagttgtg tttgaacggg agaaacaagt cgggtggtcta tgggtttaca cacctaaadc 180
cgattccgat ccacttagcc ttgacccac cccatccaaa gtccactcga gcatctacga 240
gtctctccga accaatgtcc cgagagaaag tatgggtgtc agggacttcc cgtttttgcc 300
acgtttcgat gacgagtcaa gagacgcgag acgttatcca aatcataggg aagttcttgc 360
gtatattcaa gactttgcta aaaaatttaa aatanaagga gatgattcgg ttcgagaacg 420
aagtggtcnc cnttgaaccg gttgacacgg aactggaggt caattcn 467
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<210> 5428  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-G1

<400> 5428

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ttctttctat tcaagattca caataattgc caagcgaaca agtctttgcc tctttggttt 60
actttcctct gttttcgatc catttagaaa atgttattca cgaggagtgt tgctcggatt 120
tcttctaagt ttctgagaaa ccgtagcttc tatgggtcct ctcaatctct cgcctctcat 180
cggttcgcaa tcattcccgat tcagggtcac tcttggttctg actctccaca caagggttac 240
gtttgcagaa caacttattc attgaaatct cgggtttttg gtggatttag tcatcaactc 300
tatcaccaga gtagctcctt gtttgaggag gagcttgacc attttcgctt gttgccgatg 360
aactgtcact tctaagtaat aagttgagaa aaatgggtact tgccgaaggt tcaaagcttg 420
ctccgcggcg agtacttctc aaaaaggggt gttcaaagga aacaanttcg ttc 473
```

<210> 5429  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-023-Q1-E1-G10

<400> 5429

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acgcgtccgg aagatgctac cttgtctggg tagaaaatgg atgagattgt caacgaggaa 60
tctaaaacca acttggaaact tgataaacgt cgttgacgca agtaaaacaa ttgtgagagg 120
aataagcggg ggagctgaaa cgatagctaa agagagagtt gacaccgtag tgatcgggtgc 180
cggagtcgta ggtttagcgg tgggcgcgtga gctcagtctc cgcggcagag aagttctgat 240
cctcgacgcc gcatcatcgt tcggcaccgt gacgagttcc cgcaacagtg aagtcgtcca 300
cgccggaatc tattatccac caaactctct aaaggccaag ttttgtgtaa gagggaggga 360
attgctgtat aaatactgct ctgaatatga aatccctcat aagaagattg gtaagcttat 420
cgttgctacg ggattctctg aaataccgaa a 451
```

<210> 5430  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-G3

<400> 5430

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cgatgcctan aagtgcgaca atggtcggag ctttgcctgg tctcgggtacc cagatgtact 120
ccaacgcctt ccgcaagctc ccttatatgc gtcattccgtg ggagcatgtg gtgggtangg 180
gacttggngc tgtgttttgcg aaccagctcg tgaaatggga tgtgaagctt aaggangatc 240
ttgatgtgat gctcgctaag gctanagctg ctaatgancg ccgttacttt gatnaatatc 300
gggattaatt ttgcgtgatc ttgaagtctt cacaaaaaga nntatcctcc ctgaaccatc 360
tcnngtgctg gnttgtctga tnttcctgtn aancgttcnc ncctcgcttg gctcagtcgg 420
gagtcttnca ncacgtttca aatcactaag 450
```

<210> 5431

<211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-G9

<400> 5431

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ccaaggtctt caatggcctg cacttatgca agctcttgcg cttcgagaag gaggtcctcc  120
aactttccgg ttaaccggaa ttggtccacc ggcgccggat aattctgatc atcttcatga  180
agttggttgt aaattagctc agcttgcgga ggcgattcac gtagaattcg aataccgtgg  240
attcgttgct aacagcttag ccgatctcga tgcttcgatg cttgagctta gaccgagcga  300
tacggaagct gttgcggtga actctgtttt tgagctacat aagctcttag gtcgtcccgg  360
tgggatagag aaagttctcg gcgttggtgaa acagattaaa ccggtgattt tcacggtggg  420
tgancaagaa tcgaacataa cggacc                                     446
  
```

<210> 5432  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-H12

<400> 5432

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gaaggatgga tcaagaaact tgaaataaca aatagatcag gccgtaaaac cagaagagat  120
ccattcttca ttgaccctaa aagtgagtat atctttcaat ctttcaaaga cgcacacagg  180
tatgttgaga ctggcaatat tggacattat gcacgtaa at tgaaagaaag tgatatcgaa  240
gatgatgatt ccggaaatgg aaagactggt cttcgtctgg agtatgtgga caagagatct  300
gcaaatgatg tattggaaaa agagaaaacg atagatgatg tcaagaagaa gtaaaccgng  360
aaacttatct tctccgatg aacattccaa gaattgtnaa atgacttctg acttgagcat  420
tgtaacctca caagttcttg aggattgggg a                                     451
  
```

<210> 5433

<211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-H2  
  
 <400> 5433  
  
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 cttcatacgg tccttgata gaatctgagg ttgggattac tgagtatgca aaactaggaa 120  
 gcagcaacaa atctcaaggt cagcggagat tgaatccatt ggcccgtcag ttctctcttg 180  
 cagatgctaa acaaaaagcca tatggctatg gtaaaaacca agctgcagat gatttatcgc 240  
 tagtggtgaa tactagcggg ttatacattc cagctcgta tagggaggac cataatgtag 300  
 tagatgcaga cttagcacia tcttcagtaa atgtggagcg ttttcttccc aacatgtcac 360  
 atggcgggtc ctcaattata aactccaaag gnaagacagt tacnttgggt ccaactaaan 420  
 ttgantgccg tgganccaaa accccaaaat ttcagttaaa ggggtataaa aganttttaa 480  
 c 481

<210> 5434  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-H4  
  
 <400> 5434  
  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntggt gtctctctcg gatctcccaa 300  
 gtacactatg ggaaatgatc tttggtatgg acctgacaga gtgaagtact angacccttt 360  
 ccgttcaaac tccgtcttac ctcanccgng aaattcctgg cgaattaagg gttggaaaac 420  
 cgcccgggtt atccgcagaa ccccggaanc cttggcaaaa aacangaact ccttggagg 479



<210> 5435  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-F10

<400> 5435

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tgtgttaatg agaaagcttc ttcaanaaca actctcaggt tccaagaagg gtgctaagaa 120
aggtgctcaa gtaacagctg tgccagaggg gaagctaaaa ggcctagtat atgtgaatga 180
gcaatttgat ggatggagag ctactgcct gcggattctg caaagtagat ttgaccagca 240
aacctgtant ttcccccg atacagagat gcttgcanaa ctnagtcaa cattgttgca 300
ngagggaaaa aacttgaaag ccattcaaaa ggtttgcatg cctttcctta aattcaagaa 360
ggacgangca atatctattg gcactcaggg tctgaacttg acggttacct tttgganata 420
tcaaagtc 428
```

<210> 5436  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-F7

<400> 5436

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atcatttcta aatctcagat ctctgattcc gttaacgggg tcgttttccc tgttgtaaaa 120
gaccttnaa ccggtcaata cntcgcacag attcgactcg gtgactcacc ggatccagtc 180
aagctcgtag tcnatctggc cggtcaatt ctctggtttg attgttcctc aagacatgtt 240
tcctcgtaa ggaacctaat atccggtagc tctagcggct gcttaaaggc aaaagttgga 300
aatgaacgag tatcatcaac atcatcatcc gcgtaaaaga caaaaacgcc ggattgccaa 360
ataacttggt aaaaaacgaa ncctttgggg gaataacggc gaagaaggan aannttttta 420
agtgaacgtc aatgtnnggt tgggtcctgg ttaaantnct cccggggaaa acgtttgatt 480
```

<210> 5437  
 <211> 525  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-F8

<400> 5437

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ccggatngaa tccgttatgc ttctcctcc ttggcggttg atgccaataa ctgcagcggc 120
tgaagcgatt tggcggtggt cgattgaaga actagggctg gagaatgagg ccgagaaacc 180
gagcaatgcg ttgttaacta gagcttggtc tccaggatgg agcaatgctg ataagttact 240
aatgagttc atcgagaagc agttgataga ttatgcaaag aacagcaaga aagttggttg 300
gaattctact tcactacttt ctccgtatct ccatttcggg gaaataagcg tcagacacgt 360
tttccaagtg tgcccgatg aaacaaatta tatggggcaa ggagataaag aacagtgaag 420
ggagaagaaa gtgcagatct tttcctaagg gaaaccgttt aaagaagaat aatccccggt 480
aaataangtt caaccttccc gtttactcaa cgaagaaacc gttgt 525
```

<210> 5438  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-G1

<400> 5438

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attctctcct caattcgccg gtaaaccctt aactctgtcg gaaaacccta attcgccgcg 120
acggaaatta ccaatactcg tttcctcgta gcattggatt tttaaagctg ttgattccag 180
ctttgttgag gttaaagcaa ctatgaagcc tgttcttcac tcgggttctt catccaatgg 240
attttcacac aggagatttg aaaaggaggc atggatgaat aacgcacagc cttctgttga 300
caatacagaa aacggttggg acgctgaaag tgtggataac cttctcaag aagctgttaa 360
```

gtgtattcaa caactttgta ataatgggnc aatcanggta agaaattcaa cccaaaaaatg 420  
 gggttctgggt taacancggg naataatttc aatggctggc taaatgttgg agaaaggant 480  
 tt 482

<210> 5439  
 <211> 524  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-G10  
 <400> 5439

aagtggtttc ctttgccag ntctaccgn annggacaat cccgggtcga cccacgcgtc 60  
 cgaaaaagaa gaaccaaga togactctta cttcgaatct ctctcaactt tcttcctcag 120  
 cttacgggaa cttcacaca tatacatcca caagaacca tatcgaagat tcatcctaca 180  
 tatatttaca tggatcagta ctcatcctct ttggtcgata cttcattaga tctcactatt 240  
 ggcgttactc gtatgcgagt tgaagaagat ccaccgacaa gtgctttggt ggaagaatta 300  
 aaccgagtta gtgctgagaa caagaagctc tcggagatgc taactttgat gtgtgacaac 360  
 tacaacgtct tgaggaagca acttatggaa tatgttaaca agagcaacat aaccgagagg 420  
 gatcaaatca gcctcccaa gaaacgcaaa tccccggcga agagaggacg cattcagctg 480  
 cgcggttatt ggcgggagtg tcggagagta gctcaacgga ttaa 524

<210> 5440  
 <211> 514  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-G12  
 <400> 5440

aatggttctt tgcngccta cggacggaat tccgggtcga cccacgcgtc cgccccacgcg 60  
 tccgcaggaa tcacaatcgc tgaatatttt agagatatgg gctacaatgt tagtatgatg 120  
 gcagactcaa cttcccgttg ggcagaagca ttaagagaaa tttcaggacg gctgggtgaa 180  
 atgcctgctg acagtggata tccagcctat ctagcagcac gtttagcatc tttctatgaa 240

cgtgctggta aagtaaaatg tcttgggtgga ccagaacgta acggaagtgt tacaattggt 300  
 ggtgcagttt cgctcctgg gaggagactt ttcagatcct gtgacttcag caacccttag 360  
 tattgtgcaa gtcttctggg gtttggacaa aaagcttgcc caagagaaaa cattttccct 420  
 ctgttaattg ggttgatttc ttactcaaag tattcaacgg nactgggatc cttccaatga 480  
 naagttcgat tcaaatttca tcaacatcan gaca 514

<210> 5441  
 <211> 504  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-G3  
 <400> 5441

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 gccctttttt ttttttttg gagntacaat gcnatgaatt ccaaaccaga taagattcaa 120  
 ataaancaga gactaagaag gctgttcaaa cagtaataat tcttgngat gancactaaa 180  
 ccagaacgat aacangaaac aaagatacag tcagtactca ctagtttgag ggcacctacg 240  
 gnaagcaagt aatactacag atggtagacg ttccagtgtc taatgatgaa acatcatcag 300  
 tacaagcaaa cgtgtttttc atcatacacc gtatcacttt cacaagtggc tgcagtcatt 360  
 ccgcancata angagattga cttcgataat caacatcaac tttgcgcana ngancagggc 420  
 taccatgaga tggggaactc tcattgtctac gcctttcaag gagacatctc cttaanaang 480  
 gnaaggcttt tgcaaagcaa ggct 504

<210> 5442  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-G4  
 <400> 5442

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 gattcccact tctttcttct gttttcttct tctcttctt taaattggat gttttgggca 120

agaaacagag agaaacacgt taatttgaga gtttgtcatt gaatatttgg tttgcaatgg 180  
 aaagagattt tctggggttg agcgacaagc agtatctaag taataacgtt aagcatgagg 240  
 ttaacgatga tgctgtcgaa gaacgaggggt taagtacgaa ggcagctaga gaatggggga 300  
 agtcaaaggt ttttgtact tcaagtttca tgccttcttc agatttccaa ggaggctaag 360  
 gcgtttccgg gtgcatacca atggggatca gtttctgcgg gcaatgtttt cccgcaaagt 420  
 ccaatttggg ggtgcgtttc aaaacgcgac gccgcnttta ctaaggnggt tcaattncct 480  
 tacaactcaa c 491

<210> 5443  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-G5  
 <400> 5443

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 tgttacagat tactacatca acgaaatatt aaacatttaa ccatatataa aagttggaga 120  
 tatatgatat aagcttttct tagcagtcct acccttcttc tctcgagaga gctccattcc 180  
 aatcaaagct gtaaacacac ttcagaagat ggagatcact aacgttaccg agtatgatgc 240  
 aatcgcaaag gcgaagttgc ctaagatggg atatgactac tatgcatctg gtgcagaaga 300  
 tcaatggact cttcaagaga acagaaacgc ttttgcaaga atcctcttcc ggctctggga 360  
 ttttgattga tgtgaacaaa attgatatgg cgaactaacg gtcttggggg ttcaaagatc 420  
 tccgatgccg attaaggggtg gctccactg gccttcaaaa gaatggc 467

<210> 5444  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-G9  
 <400> 5444

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gtgggttatgg aaacctatac acagacggct acaagacaaa caccgcggcg ttaagcacgg 120  
ccctgttcaa cgacggcaag tcatgcgggtg gatgttacca aatcttgtgt gatgcaacca 180  
aagtaccaca atggtgtctt aaaggcaaat caatcactat cacagctaca aactttctgtc 240  
caccgaactt tgctcaggca agcgacaatg gaggttggtg caaccacacg agacctcatt 300  
tcgacatggc tcagcctgcg tttctcacca tcgctaaagt acaaaagctg gaatcgtccc 360  
cattctttac aaaaaaagtt ggatgtagaa agaaacggag ggatgagatt acaataaacg 420  
gtagaaacta atttcaacct ggtcccatct caaacgtaca agaggg 466

<210> 5445  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-H1  
<400> 5445

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tctgtagcag cagagcatga ttacataggt ttgtcagagt ttccaacat ggaagcaaca 180  
acaatgtctg acaaaaccaa aaccagagac aataacaacg gtctcaattt caaggctacc 240  
gagttaagac tcggtttacc cgtttctgag tcgcgggagc gagtcgactc aagattcttg 300  
gctctcaaca agagtaactg tcccgtgtca ggtgccaaaa aggggtgttct ccgacgctat 360  
taaacgaact cctaacaaat gggtcctctc tctggggatt cactactggc tactgggtgat 420  
gtcgggctcc ggggttcngg tccccgtacc tccgtcgntt aaagaa 466

<210> 5446  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB23-022-Q2-E1-H10  
<400> 5446

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cttgatgaga gacaagaagt gttgatgctt gtcacaaatt cgtaaaaaca agatcttaat 180  
 cactcgaacc agtatgttgt aggacttgct ctctgtgctt tagggaatat ttgttcagca 240  
 gaaatggccc gtgatcttgc gccagaagta gaaagattaa tccagtttcg tgaccctaata 300  
 atccgaaaga aggcggcgct ttgctctact aagaataata aggaaagttc caagatctaa 360  
 caagaaaact tcgtaaatgc tgctgcttcc ttgcttaaaa gaaaagcatc atgggggttcc 420  
 tataacaagg agttcaactt tgttatgaat tatgcacgaa ttaatggatg aagccc 476

<210> 5447  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-H11  
 <400> 5447

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 aagcaaaactt cttctcttta cctactggtt gacacatcca atcccgagc tcctataaac 120  
 cctagctcat catcttctac taacaatctc tatecttctc tcgatatgaa tgatctcgct 180  
 cgtaatctct tccctgaaca accagagacg agttctattc cggtttcagc tcctcccgt 240  
 gcgacggagg aagtaatttt gaaaatctcc ggcgcgattc ttcatttaac cgacaaatct 300  
 tacagcgctg agctcgcttg cggatgattt gagatcatcc gtattgttca aggagagaat 360  
 gttgtcgctg ttctccgcta ntgtctccga tganaatcaa tgggccggtt gactaaagga 420  
 tnaagaactc tgtcaangtc gatgaagtct caattaattt cttcangcct tcgt 474

<210> 5448  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-H12  
 <400> 5448

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 ctcatcttct tcgctttcng atcttngaa atcgcaggca ttgttcgtct actcgaggat 120

ttcaattttg gtcattnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naccggcggt tcgtatttcc gacgggaatc 240  
taatcatcaa aaaccggnccg attctaaccg gtgtaccaga taatgtcatc acgacgtcag 300  
catcggaagc tggaccggta gaaggagtct tcgtcggagc tgtatttaac aangaagaga 360  
gtaaacacat cgtaccgatc ggtacgcttc gcaattcccg gtttatgtct tgtttccggg 420  
ttaagctctg ggtggatggg ccaaagaatg ggaaaaatgg gccgagatan tc 472

<210> 5449  
<211> 515  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-F6  
<400> 5449

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gcggacgcgt gggcggacgc gtggcgacgc gcgtgggaac taaaagcctt tgtgtgtgcc 120  
agattagctc cctactaatc cgccgccgca cctcctcgat ctccgccag ctcccttctt 180  
ttctatctat ctattcagtt gtttctccgg tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnngag atttgtgacg tatccgccgc ctctatctgt gcctccgtcg 360  
gctcctcagt cacctaactt ctctggtggt ctccgatnac aaccttcctt cctcgttgag 420  
caagagaagt atccttctga gttacttgaa gaacgtcaca aagcttactc caattttggc 480  
tgtgcnttca aatgttttgc cgntcaatg aaaca 515

<210> 5450  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-D9  
<400> 5450

acgcgtccgc tcantttctc gccttcagtt ttctcacaat caaggagatt atcttcttct 60



tcgttaattc cgataaggtc aaaatccaca ttcaccggat ttcgatcgag aaccggtggt 120  
tatttaagca aaacgacggc gtttcagtcg tctacaaaac tgagtgtggc ggcggagagt 180  
cctgcggcga caattgcgac ggatgattgg gggaaagtat cggcggttct gtttgatatg 240  
gacggtgtgc tttgtaacag tgaagatctt tctagacgcg ccgccgtgga tgtttttacg 300  
gagatgggag ttgaagtcac tgtggacgat ttcgttcctt ttaagggaac aggtgaagcc 360  
aagtttttaa gaggtgttgc ttcagtcaaa gaagttaaag gatttgattc aaatgcaagc 420  
taaagagaan atccttgaaa tatatcccg ataagtatgc gaagc 465

<210> 5451  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-E1

<400> 5451

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aagggcaaatt ctttcttctc cttcgtcact ctaattgagt tgactaaaca cagttcgagt 120  
tcgagagaca atggatcttg ctaagtttct gtgttggtt gttttgctac tgggaatctc 180  
actcgtagaa tcaaggtaga tggctctaca tacttcacat accattgttc ctggaaaact 240  
taatgtccat gtggttcctc attctcacga tgatgttggt tggctcaaga ccgttgacca 300  
gtactatgtt ggctccaaca actctatcca ngttgcttgt gttcaaaatg tactggattc 360  
aattgttcct gcgctgttgg ctgataagaa tcgcaaattc atttaagttg aacaagcgtt 420  
ttttcaaccg gtggtggnat gaacaaagtg aggagattaa a 461

<210> 5452  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-E10

<400> 5452

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngagaat gtcttctaca acaatcggcg 120  
 agcacatcag actccgacga gctagaaacc aaacaatccg tcatctccac gccgccgacg 180  
 atgatccgcc gctaagccac gtcgttcttc cgatttcaca acctaatcgc ttctgtaact 240  
 ccgcaatgtc ttcttctttt cccctcccga cttcctcttc caacgaaagc acgaggaaga 300  
 aaccgtacca aacgtcgtcg ttctgagggg tgggttgcta tgccgcagca gcagcagcag 360  
 ctcaagaggt ttctgttccc tccgtcattc gctactccgc gggatttggg atgccagaat 420  
 tagaaaagat aagaagaaga agagcataag cataagaaaa agnagaa 467

<210> 5453  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-E11  
 <400> 5453

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 ggtggtaaag acaagcatcn tgatgagcan cgagaaagga ttcatgggtt ttccagnagg 120  
 tggacattac ccacctgctc aaggangtta cctcctcaa gggtaccac cacaacaagg 180  
 gtatcctcca gctggaggn acccacctgc cggatatact cctgntgctt accctgctgc 240  
 gcccggtggt tatecncctg cacctggagg ttaccctcct gctggctatc ctgcacctgg 300  
 agtcaccat tnaggacatt ctggtggtgg actcggaggc atgatagcag gtgcaagctg 360  
 ggtgcagcnc caacagctta tggagctcac atgttgngtc acnctctca caaccttact 420  
 ggcattgctgt atgacatgga nggtatgggc atgccctgnc attgg 465

<210> 5454  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-E5  
 <400> 5454

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caaaaatgaa aagtggaggg aacacaaaca ctaaactcat acttggtcat ccatacatte 120  
aaaagcaann aagcacaaat cgtctatggc ttctcgcttt cgtttctttc ttcacaatcg 180  
cttttctcct aactcttctc tacaccaccg actccatcat ctcttctaaa aacaactccg 240  
ccaccgtctc ctccgccgtc aattctgccg tcaccaccgc taccatctct cagttaccaa 300  
caacagccat caatgcaatg cttcactacg cttcaagatn aaacgacaag ctancacatg 360  
tcatacggag agatgaaatc aatctccgac gtctctccggc gctgctctcc gccgttgtaa 420  
tcctcctaag tccttcggtc cttacacacg aaaacccttc tcctggg 467

<210> 5455  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-E6  
<400> 5455

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cttgtcaaac aatcaaacc ttttttagata tagaaaatgg gaatcaaatt cagccaaggt 120  
ccttogaata caaccattca caacagaagt catcaagatg gtgaggatca aaggaacgag 180  
acggcgacga agatcaatca tgacaagcct caaatcaat caagtagctt tcagattcca 240  
cttcattatc caaagtatac aaagagtgat tatgagaaaa tgccagagtg gcaattggat 300  
cggcttctga gagagtacgg cttgccgggt atcgagatt cttacgaaga agaggaaatt 360  
tgccatcgga gcatttctct ggtcgtcgga gaacgaacac tanatnatat gttatccgta 420  
atagacgtca tccgtttcat atggtactgt ttgaataaag ataag 465

<210> 5456  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-E7  
<400> 5456

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ctctaacggt gctcgtgctc ccgaagatcc tattctcggt gtaactgttg cttacaacaa 120  
 tgatcctagt cctgttaaga tcaatttggg tgtcgggtgcc taccgaactg aggaagggaa 180  
 gcctcttggt cttgatgtgg tgcgtaaggc agagcaacag ctagtgaacg atccgtctcg 240  
 ggtcaaggaa tacattccca ttgttggtat ttccgatttt aacaagttaa gcgccaagct 300  
 catcttaagt gctgacagtc ctgcgattac agaaaagtta gaagttacta acaagtccaa 360  
 gttgcttgtc tgggtaactg ggttccgttt gaagaatttg ggggcctgaa gtttcctcaa 420  
 aanacacaac taaccaacna aaaggtgggc aanttaacaa ttccccaaaa nccaancctt 480  
 ngggggggaa aaccaatc 498

<210> 5457  
 <211> 507  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-F1  
 <400> 5457

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 ttgcgattga ttctctgtc ttctccaatt tatcagagat gacacctgaa tcaaacgctc 120  
 cctcagtaga tccacaattt gtaggcaatg ggtttgttca agaatactat aancaccttt 180  
 atgattcaac ctcggaagta cacaaattct atctcgagga tagtatgatt tcacggcctg 240  
 gtctcgatgg tgagatagtt actatcaa at ccttgaaagg gattaatgat cagataatgt 300  
 ccattgacta caaaagctca aggatcgaga ttctaactgc tgattctcaa tcaactttaa 360  
 agaatggtgt tgtaactcta agtcacgggt ttaagtgate gggaacgatg gangaaagga 420  
 ggaaattttc ccaaaatttc cttccctgtg tcccgggatg ggaacctact tgtggctgaa 480  
 tgataacctt angtaagtgt cctgaag 507

<210> 5458  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-F10

<400> 5458

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tcttcgtttc aagcttcttg acgaccgacg ctcttgcttg tcttcctgac cagatccaag 120

ctctaatacna attcaagaat gagtttgaat ctgacggctg caaccgcagt gactacttaa 180

acggagtcca gtgtgataac acgactgggtg cggtcacgaa gtttcagctc ccaagtgggt 240

gcttcactgg aactctcaaa ccaaacagta gtctctttga gttgcatcag cttcgttacc 300

ttaatctctc tcacaacaac ttcacttctt cttcactccc ttctgaattc agcaatctca 360

ccagattaga ggttttgtct cttgcctcta gtanctttac tggtaagtt ccttcctcaa 420

ttagtaacct tatcctgcta nccaattaaa cctttcccat aatgag 466

<210> 5459

<211> 514

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-022-Q2-E1-F12

<400> 5459

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tgctacctgg ctgctatta ttaaccaaga agagtccttg gctagagagc tttatcccga 120

gtcatgtcca cctctttctc tgtctggtgg aagttgctcg cttctgatga atgattgcag 180

tcaatacgat gttgaagggt tcgagaagga gtctcactat gaagtggaag agctcaagcc 240

agaaaaagtt atgaattctt caaactttgg gatggttgct aaaatgcatg actttcctgt 300

caaagaagaa gtcccagcag gaaactcgga attcatgaga aagagaaagc caaacagaga 360

tctgaacact attatggaca gaaccgtttt cacctgcgag aatcttgggt gtgcgcacag 420

cgaaatcagc cggggatttc tggatangaa ttcgagagac aaccatcaac tgggcatgtc 480

cacatcngag acagtcgctt accgtatggg agca 514

<210> 5460

<211> 525

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-F3

<400> 5460

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gttcttcatt ctccgcaaat caagcataga aagagactct tggagatcat ccaagtatcc 120  
gattctcaga ccctaaaaat ataatgtcca tgaaagggat ctcatcagca gagtcagata 180  
agctctctag gagaatatct ttgaccacaca agcgcaattc cgaagagctt gacgtgtttg 240  
aagctgccgt gtacttcggc tacaatgaag cctcctccgg tgaccatgga catacacaaa 300  
agtatggcta taacgcagcg agagaggaga atccgaggag atggggaata ttaggaggtg 360  
ggaagaagaa tcagcttggg ttttgccat taagatgctc agaacaaagt gtaccatcct 420  
tcaacaaaga ttatcatgaa gaagcacgaa agttncaca atcaaaggag aagactttgg 480  
taacgttaga cacaagcaa accgagttna accaaggtgg ggaaa 525

<210> 5461

<211> 516

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-022-Q2-E1-F4

<400> 5461

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tcttctcttc ttctctttag tcatctcaac caccatgagt caccagcagc cgccgagcta 120  
tgccaccgag ccaaacacca tgttcgttca agcagacccc tctaatttcc gtaacatcgt 180  
ccaaaagctc actggagcac caccgatat ctctctctca tccttctccg ccgtctcagc 240  
cgcacaccag aagcttccat taactcccaa aaagccagcg ttcaaactcc acgaacggcg 300  
tcaatcatca aagaaaatgg agcttaaggt caacaacatc acanacccta acgacgcttt 360  
cagccatttc accgaggatt cctcgtctct cccgtctctc aactagacc aatttggggc 420  
gcgcgttaag ttcanattca agcgcgttga gggaacaacc aacgccgcaa accgggncaa 480  
aggangagca aaaaagncaa tagcgggaaa aaaggg 516

<210> 5462

<211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-F5  
  
 <400> 5462  
  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn ntgtattctt ttttagttgt taataaaata natgtttcct taccaaactt 300  
 tttttttttt gcagatttta ccgncgagaa nagtaccaac gtccaagtan gtaaaggcgg 360  
 gagtaaacgt taacaacat aaagggtaaa cggggtagcn ggaaccgcc gttgaaacgt 420  
 tgggaaaggg aaggtttcgc cgtgggnaca 450

<210> 5463  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-D8  
  
 <400> 5463  
  
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 tgggttccca cagccttgag agattcggaa ccaatgatga tgcgtgctgt tataaggaga 120  
 gctgccagta atggctcttc tccttcgtta ttgcgaaaat cactgcagtc ttctcgtggt 180  
 gctgcatctt cccctagctt gctatcagggt tcagaaacag gggcatatct gcatcgtgga 240  
 aatcatgctc atagctttca taaccttgct ttgccaggga actcgggcat ctcgaggctg 300  
 gcgagtttag tttcttcaac cctgcaaaag atgggtcang cttttttcag ctgaaactgg 360  
 gagataccgt ggaaagcant tgtgcctcat atggggaatc aattactgat gggaacttgg 420  
 gcaccttctg agaaactggt gagagatcaa gntgat 456

<210> 5464

<211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-B5

<400> 5464

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ctctcctccg ccgctgtggt tacatccccg gtcattgcc accatggtcg ctccattcac 120
cggettgaag tcatccgctg cattccccgt caccgcgaan accaacangg acatcacttc 180
catcgcaagc aacgggggaa nagttagctg catgaangtg tggccaccaa ttgnaagaa 240
taagtttgng actctatctt acctccctga ccttagtgac gtcganttg ctaangaant 300
tgactanctt ctccgcaaca agtggattcc ttgtgttgaa ttcganttan agcacggatt 360
tgtgtaccgt gaagcacnga aacactcccc gatactacga tggacngtan tgggcaatgt 420
nggaagcttc caatgtttcg gatgcaacga ctccgctcaa agt 463
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<210> 5465  
 <211> 457  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-B7

<400> 5465

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agcaacaacg aacgacgacc cactgattca atctcctcct ctctgcatat tccttggcat 120
cttttctggt accgaagctg agtctctgga gagtttctag atcttcttca attctgcaat 180
tcagagcgaa gatttattag tgattgatta ttactctgg agctcgagtt ctggatccgt 240
gtggctggag ggaatgttct gttaagctga ttgtttatgc ttgttggatc agtatagaaa 300
ttgtcagatt gagaaagaca acaaatgaag aacggtataa ctgagtgcc tgcatgtcat 360
tcaaaattgg tctctcctgg taacaaaact atttctaagg gctatgacga acacaaagan 420
taaggatatcc tcaaaacaac gttgtcctca atgtcct 457
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<210> 5466



<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-B8

<400> 5466

acgcgtccgc ccangcgtcc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnngt ttccctcaca tcctcctcct cctccgcctg atgagttggt tgacatttcg 180  
actacagttg atcctagcta tcttatttca ctgataagga aactccttcc aattgattcg 240  
ggaagtgcgc aacgacataa tgatcatatg aatacggnta atgtgggttca nggtgtagta 300  
gctatatctg gaaatggggg tgttgagagac ttccaatggg gatcaaagga gcatggacat 360  
tggggataat catgatgaat ccacttntga nggtgggggg ngacgggtan ttcattgtcca 420  
agcgccgggn aat 433

<210> 5467  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-022-Q2-E1-C11

<400> 5467

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tgaggaagtg gttttgttgt gtctctctgg gtttgaaata tgagcggaga tagacttgaa 120  
tttgaaaacc ctatagagga tgcggtttcg aggcctcagat tctccctca atcaaacaat 180  
ctcctcgttg cttcttgga ttcttatctg agattgtatg atgtggagag ctcttcgcta 240  
agtcttgaat taaactctca agctgctctt cttgattggt gtttcgagaa tgaatcaact 300  
tcatttacct ctggttctga tggattcatc cgaaggatg atttaaagc tggaacagtt 360  
gatacaattg gaaggcatga tgacatttca acatccattg tctactctta tgaaaaaggt 420  
gaagttatct cgactgggtt tgatgagaag atnaaattct gg 462

<210> 5468

<211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-C12

<400> 5468

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gtattttctg aagttaaaag atagaaataa tgtctgaaaa ggtgggagcg atgggtggta 120
acaaggggtgg agcattcgac gatggtgttt ttgatgggtg gaagaaagta attggtggaa 180
aagacttcaa caatgtaact tatatcaagg ttgaatacga aaaggacgga aaattcgaaa 240
ttcgtgaaca cgggactaat cgcgggcagc taaaagagtt ttcagtggat tatcccgaa 300
gaatatatca cagccgttgg tggaagctac gacactgttt tcggttacgg atcagcgttg 360
atcaagtcac tactcttcaa aacctcttat gggaagaacc tctccaatcc ttgggtcacac 420
gacattacta nggaatccaa ctgggaaaga attcatgctc gagtccaaa 469
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<210> 5469  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-C5

<400> 5469

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gntttggccg ggcctaccg gtccggaaat tcccgggtcg acccacgcgt ccgcccangc 60
gtccgtggag atctcttctg ggaatcgagc ttcactgtta aagattttcc ttcaatcggc 120
taaaaatgat acatttcgtg ttactagtca gtcgacaagg gaaagtaagg ctcaccaagt 180
ggtattcgcc gtatacgagc aaggaaagat ctaaggtcat acgtgaactc agtggagtga 240
ttctgaaccg aggtcccaag ctctgcaatt ttattgaatg gagaggatac aaggttgtct 300
acaaaagata tgcaagcttg tacttctgca tgtgcattga tgaggcggat aacgagttag 360
aggtactgga gataattcat cactacgtcg agattcttga ccgctacttt ggcagtgtgt 420
gtgaactcca ttgattttt aacttcaca aggcgtatat atactccatg agcgttgatc 480
ccggagaact tcaagagt 498
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<210> 5470  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-C6  
  
 <400> 5470

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acgcgtccgc caacatgcac aaagaaatat gaatggtata tttcctgagg accctgggtca   60
gcttgtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  300
nnnnnnnnnn nnnnnnnntaa catcatgagc aaccaatcaa ttgagaaaac atcaaaatga  360
gtttccaaat ttgatgctca tgatgctata ctaaaaaccg atgggttttg gcgtttgggc  420
ctttgacaat ttcantttga cgaataatga aaatggcttg ttg                               463
  
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<210> 5471  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB23-022-Q2-E1-C9  
  
 <400> 5471

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acgcgtccga ttttctccga ttgaaatcgg atttcatctt agtttgcttt tctttgtttt   60
cttttgattc cggatatttg ccggtttaaa tttccgactt gttcggaatt tcttccggtt  120
ttattgccgg ttttttgata agatcttttg caagttgcaa atcaccactt ccaatcttgg  180
aagatgttta attccgggag agtttttagat ggatctttgt tcattggatg cttgattttt  240
cttccatgtg aaggtaaatt cctcgctttg ctaataagag cgtaaggggc tcggttcttc  300
atgggtgata gatcaagatg tttgcggttg attggagagg agtatgaaga gttgggggttc  360
acgtcgtgtt ttgatgggtc tccaaggatt attccaatcc tcatcaactg aaagtttaaa  420
tctccggtgg gcaaactaaa tccaaaaaat ctctcccgac g                               461
  
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<210> 5472  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 aagattaaca gagatctcca tggatttcac caaattagga ttcccagaan aagatgaaga 120  
 aattaaaaaa ttggagagat cgtggagtaa gctcnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn ngttttcgtt tgcttggtga aacggagaaan gatctccaat 240  
 taccgctgat gaagcttttg aagatgggtc gatccgtcct gtgtttcctc tgtttaaccg 300  
 tgatcttctc ttcgagtacg aaaacgaaca tgacaaaaac gacaacgttt cggtcaccga 360  
 cgagaacaga ccgcgtcnta aaaaattatt tgttgaggat cgtaacggta acggtgaccg 420  
 ngaagagacg gaagggtcct gagaaagaac cgtttgggan cgt 463

<210> 5473  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-D10  
  
 <400> 5473  
  
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 tgatttataa cctcctctct aataaaccac cacatcctct gaaaccctag cctgaacaac 120  
 tcgccgtctt ctcgagaaac atctttctta cttecgcttca ttacaagatc tgatgaaacc 180  
 agatcggatc ttgctctaga tccagatgct ccttaactta tttactcgaa ttcacatca 240  
 tcgttatcat caccatgtca ctgtttctaa aagacgattc gattcaaate cgtgaagtat 300  
 ggaacgacaa tctcgaatca gagatggctc tgattcgaga agtcgtagac gatttcccat 360  
 tcgtagcgat ggacacagag ttcccaggaa tcgtgtgtag accagtggga acattcaaaa 420  
 ccaacacaga gtaccactac gaaactctca aaacaaacgt caacatactc aagatgattc 480  
 agcttggnct cact 494

<210> 5474  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-022-Q2-E1-D2

<400> 5474

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ataaatactc tcagttcttc tcttctccaa gaacaaaaaa aaaaaatgaa ttcagaatcg 120
ctagaaaatc ttcaccgtcc attaatcgaa tcatcgaagt cgttcgtcga ttatcgtctc 180
gagactgtgt taacagatcg agagttaccg tattttcgcc ggatttatct agcgatgatg 240
attgagatga agtttctctt tcatctggcg gctccggcga tctttgttta cgatcatcaac 300
aacggcatgt caattcttac acgtatcttc gctggacacg taggaagctt cgaactcgcc 360
gccgcttcac ttggaaacag tggtttcaac atgttcacct atggacttct gcttggggaat 420
gggaagtgca gtggaaacat tatgtgggtca agcacatgga gtcacat 466
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<210> 5475  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-D4

<400> 5475

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tggtttttagt tcaacttagt tgtagaagat gggatcaaata caaggttctt ccagggttaga 180
tacgttagag attaaagctc tcatttaccg ggaaattggg aatcaaagag ctgagagtta 240
cttcaatcag ctcggaagat tctttgcctt gaagatcacc aaatctgaat tcgacaagtt 300
gtgcatcaag accattggta gacaaaacat ccattctcat aaccgtctta tacgttccat 360
catcaagaat gcttgtattg ccaaactctc accatttata aaagaaangt gggaactttg 420
ttaaattttg gaaaggggaa tcnaagaaga acagtcaaata tccagc 466
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<210> 5476  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-D5

<400> 5476

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cgatttctcc tttatctcaa gacagctcgg aggctgagcg ccggcttcga gaagcggagg 180
agaggctacg cgatgccatg gcggagcttc agcgtagaca acgctctgcg gcgcgtggat 240
ctcacgcgga attgtgtgat cacgctgacg tttcttgctg cgccaatgcc attgggaatt 300
tatgtcagag ctttcttctc tcttatggtg ttagagttgg gatcgggatt cntcttcgcg 360
cttttaagct cgctagggga caatcctant ccgctcntct cgatnttaag caacttgttt 420
caaagaaaga nttgatagtt anggaagaaa catgt 455
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<210> 5477  
 <211> 506  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-B3

<400> 5477

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tcaagaccta ccgatgaaga gctcgtcaat cactanctcc gtctcaagat caacggacgt 120
cactccgatg tccgtgtcat cctgatatc gatgtctgca aatgggaacc ttgggatctt 180
cctggttcgt ctctttattc tctcaaaatt tgattccttt tattctcaga ttctgttttc 240
cctctcaaag attccacctt ttttttcttt actcanttgg gaacaaatct gattgtcggc 300
agctctctcg gtgattaaga cggatgatcc anagtggttc tttttctgcn ctcgtgatcg 360
gaaatancct aatggncatc gctctancag agcaantgac tctggntatt ggnaagctac 420
tggtaaagat cgtancatca agtctaagaa gactttaatc ggtatgaaga agactcntgg 480
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catccatcgt tggcnaactc ctaaaa

506

<210> 5478  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-E1  
  
<400> 5478

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naaattggcg aagaacaaaag tttgaacctt ttcttcatcc atctctctcc gtcgcttctt 120  
cctaacgatt ctttactcgc aatcagggtt gtgaagggtt tttctagggt ttcgaaaaga 180  
tgccggcgac agcaggaaga gtgcgtatgc ccgcaaaca tgggtgcat agtagtgcag 240  
cgcttcagac tcatggaata tggcagagtgc cgattgggtt tgatccttat gcaccaacta 300  
atanagaaga gcctaagacg acacaacana naaccgaaga ttccgagaac tcgtacgcga 360  
gttttcaggg acttttggct cttgctaagg atacgggttc naaatnacga tnaaggctcc 420  
gttggntcct tgtaagaaa nttgttgccc gttgttgggg catttnga 468

<210> 5479  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 5479

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cccaaaactc aaaatcggtc ctttttgcaa aaattgttca tctttctggt tttccagaaa 120  
tanggaaagc tctcttgatt tgcctttcct ggtattgagg aaatatgttt agatcatcac 180  
cgagaagagg acagagatca aagggtttca aggtgaagca ttgtattcaa ttgactttgt 240  
tgcttantgt tgggatatgg ttgctttanc aaagttaagc antctcatga agaaagaaag 300  
ctcaatttgg aggaaangtg caaaagaatt ggtggttggg tgggggttga anaaaagntt 360  
gtcnaagcct tgggnangga aaagatntta acccncggg ggttgggtta aggnttaaat 420

gaaaccctna agggmntnaa gggaattaaa aaaggttggt tanaaa

466

<210> 5480  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 5480

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tgngntgttt ngtttcttca cttagcgatg gogatgatag agcaaaggnc gaatacgaag 180  
atcgtttgta ctctaggtcn agcttccaga tctgttccga tggtcgagaa nttcttangg 240  
ctgggtatgaa cgttgctcgt ttcaatttct ctcattggatc catgaatacc atcaagagac 300  
tctcgatatc tcatcaagct atgcttaaca ctgggattcn ctgtgngtca tgctcnaaac 360  
anggggtcaag aaatccggaa cggggttctt gaaagntggg aaaacaa 407

<210> 5481  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-E3  
  
<400> 5481

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atgtacttat gtatccatgg ttcgcaacag gccatatgac cccgttctt tttcttgcca 120  
acaaattggc tgagaaaggc catacgggtca cttttttgat tcccaagaaa gctctgaaac 180  
agttggaaaa tctcaatctg tttccacaca acattgtctt tcgctctgtc accgtccctc 240  
atgtggatgg tctccccgtt ggcacagaga cagtctctga gattccccgtg acatcagctg 300  
atctcttgat gtctgctatg gatccacacg tgatcaagtt gaagggtgtg ccgagcnttg 360  
aaccggactg atctccttga cttcgccaat ggattcaaaa gtaccanana cttggcctta 420  
aactgtaant act 433



<210> 5482  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-020-Q1-E1-E4

<400> 5482

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 aattgtcatc ttttgtttcg atcggattcc ttattcgtgt atcttctccg attcgatggg 120  
 aattggctct catggcaatg gtaatcaaga ggtttcgcgt taatcaaaag gagtgaaacg 180  
 atggcgtttt gtatttggtg ttttaagcaac ttcagttctt accgttttga gtgttgatca 240  
 tttgtttggc agagaactta aaagggttaga tctttcttct gaaatgattt cattattaat 300  
 tgtctgcttg tacttgaatc atgttaatta tgactgagct tttcttcttg aggatgagga 360  
 aatcgtaatg gctaatacat acaatttgtc nactaaagat aattgaagtt gataatgcta 420  
 aacacgccac aagtatangt caatancata atgaatgttt tgtcacaaga aaganaatga 480  
 ctt 483

<210> 5483  
 <211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5483

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 ctctctcccc ctaaaaacgt catccctctc ctcaagtctg tgggagctac aaaagtcaag 180  
 ctctatgacg ccgatccaca agccctacgt gccttcgccg gctccggctt cgagctcacc 240  
 gtggccctcg gtaacgagta cctggctcag atgagcnacc ctattaaagc ccaaggctgg 300  
 gtgaaggaga acgtccaagc ttacctcca aacaccaaga tcgtggccat cgtagtggga 360  
 aacgaagtct canctcanac cagtcagccc tcacgggaag ccctcttccc ggctatgcaa 420

aagcatccaa nggtgctctn gtggaattgt gg

452

<210> 5484  
<211> 449  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-E9  
  
<400> 5484

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attttaatan ggttgccaaa gttgtagatg acattcttgt cgaacaaggt gcacagcgtc 180  
ttgtacaagt tggctcttga gatgatgacc agtgtattga agatgacttt accgcttggc 240  
gagaagcatt gtggcccgag cttgatacaa tactgagggg agaaggggat acagctgttg 300  
ccacaccata cactgcagct gtgttagaat acagagtttc tattcacgac tctgaagaat 360  
ccaaattcaa tgatataaac atggcaaagt ggaatgggta cactgtgttg atcccaacat 420  
ccttacaanc aaatgtcctg tttaaaagg 449

<210> 5485  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-F10  
  
<400> 5485

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nnnnnnnnnn ggttacgggt caatcgaact cggaagtcac ggctatggcc acaaggggtg 180  
tggtcaatc gactccaccg tctttagctt gttacnagag gantgttcct tcacgtggat 240  
ctggaagatc gagaagatcg gtganaatga tgtgtagtca gttacaagtg tctgggttaa 300  
gaatgcaagg gtttatggga ttacgtggta ncaatgcttt agacactctt ggnaaaagnc 360  
gtcaagattt tcattcgang gtgcgacagg cantgaatgt gccangggg aaagctagcc 420

ggttttacggt gaaagcantg tttgngagat tacgggggaa aagctatc

468

<210> 5486

<211> 516

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-020-Q1-E1-F2

<400> 5486

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tcaagtatgt gatcgtcgga ggtggtgtcg ccgccggata cgcggcgaga gagttcttca 180

accaaggtgt caagcctggt gaacttgcta tcatttccag ggaacaagtt cctccatatg 240

agcgtcctgc acttagcaag ggatatatcc acctcgaaaa taaagctaca cttccgaatt 300

tctatgttgc tgctggaatt gggggagaga gacagttccc tcaatggtac aaagagaaaag 360

gtattgaagc tgattttggg cacaganatt gtcnaagcag atntttgctg cnaagacact 420

ntcngttggg aactgggacc aagtcctcaa gttnncaaaa ctttggctag cnncnaactg 480

gttccttcng tcntaangg ttgttcagaa tttttg 516

<210> 5487

<211> 488

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-020-Q1-E1-F4

<400> 5487

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cagagaacca ttggtggaca agaatatggc tggatcaaaa ccagaccagc cgtggatggt 180

ttatctcagc acattcggtg cggctctgtg ttcttttgcg ttcggttctt gtgcgggata 240

ctcttcacct gctcaggctg caattaggaa tgacctttca ttgactatag ctgagttttc 300

actctttggt tctttactaa cttttggcgc aatgatcggt gctataacaa gcgggcctat 360

agctgattta gttggaagaa agggggcgat gagagtttcc tctgcatttt gtgtatccgg 420  
 tggctaacaa tcctccttgc caaaggagta ntggctccgg ancntggaag actggcaacn 480  
 ggatatgg 488

<210> 5488  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-020-Q1-E1-F9  
 <400> 5488

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 ttcnctcaat ttcaaaaaac gacgacnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnng aatttgctct tgtgatttga 240  
 gtgttataga ataaagatct gtttggagtg gatccattca agtaattgaa gaactcaacg 300  
 canaanatgg cttcaatatc gcattcatca ctagcttttag gagggagctt cttcngcttc 360  
 tgctcaagat taactngcgt tattccgagc aatgggtggt aatggggtan caatngaaaa 420  
 cttaanggag aacaagtggg tactaacaat caaggagg 458

<210> 5489  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-020-Q1-E1-G1  
 <400> 5489

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 cttctttcca cagcggagcc aagcagagca gtttcggcgc tgtcagagtc ggccagaaaa 180  
 ctcagttcgt cgtcgtttct caacgcaaga agtcgttgat ctacgccgct aaaggtgacg 240  
 gnaacatcct cgatgacctc aacgagggca caaagaaagc ttcagatttc gtgacgggat 300

aaaacaaaag angcattagc aaatgggtga agaaagcgaa agactacgtt gntgaaaaaa 360  
acagtgaaac cgagatata ttgggtaaaa gaactganaa agtgcngngt atgttggagg 420  
agaaaggaag agaagcccaa acaaggngga a 451

<210> 5490  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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gagaagagac acgatttcat tcacaatggc caaaaggtat ttgagtggga tcaaaccctg 180  
gaagaagtga acatgtacat aactttgccg ccaaagtgtc atccaaagtc attccactgc 240  
aaaatccagt cgaaacatat cgaagttggc atcaaaggca accctcccta tctcaatcac 300  
gatcttagtg ctctgtgaa gactgattgc tcgttctgga ctctanagga tgatataatg 360  
cacattaccc tgcagaagan gganaaaggc caaacatggg catcaacgat tctgggacaa 420  
ggtcagttan attcctacgc cactgatctt tancaaaanc cggcgaagcc caaaagggtc 480  
aaagaan 487

<210> 5491  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB23-020-Q1-E1-D6  
<400> 5491

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aagatatgct gcataggagc tggttatgtg ggtggtccaa ccatggcggt gatggctctt 180  
aagtgtcctg agattgaagt agtcgttgtg gatattcttg aaccaaggat caatgcttgg 240  
aacagtgata ggcttcctat ttacgagccg ggattggaag atgtggtgaa acaatgcaga 300

gggaaaaaacc tcttcttttag cacagacgtg gagaaacatg tatttgagag tgatattgta 360  
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<210> 5492  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 tgggatcacc agttttgtca aaagtggagt gtgaagaatc ttttatgtct gaacaggctt 180  
 ctctctttca atcatctatc cggtcttttag gagagtactg tcctatatct aggaaaaagt 240  
 ccactcataa agttggtggt ttgcgttttg aggaggacat cacgagctgt attggatttc 300  
 agtttatgca actgagtgat tatcaactgcc tcttctgaca tcccttgttt gtttaagttt 360  
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<210> 5493  
 <211> 493  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 ttcgattgat cgatgaatcc tagaaggag cctcgtggtg gtagaagttc tctctttgat 180  
 ggcacgaag agggaggaat tagagctgct tcttcttact ctcatgagat caatgaacat 240  
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ggcgatataa atgaagagtc gataactcata accgcatgct tgacanaatg ggcaatgata 360  
 tggattcatc aagggggaat tctcctccag gaaaccatgg aaccgccttt aaaccggtgt 420  
 tttgagaaca aantccaagn ccnaaagaaa tgctgaacgc cccgttggcc accntttggt 480  
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<210> 5494  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 gtgggacttt tgctgctatt gacaggatca attccatttt aaacgcggtg gacatagatg 180  
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 ttaaattgtt cttgtctgct ggcccaaagt tgaatatccg tcacctcgat aagtactaca 300  
 tgtcaaactc gaaatcaact aacaatctac gtaccctaaa catgggctgg gagatgtctg 360  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 gagagacttt tctctctggg gagagagctc aagttctaata ggcaacttg gtcttatcag 180  
 aatgtggtat acgacctctc ccagaatct acacaacacc cagatccaat ttcnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
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 cacaacaatt acgacacaat attgagggag tcnccaatgg ngggagatta ttaacagnga 420  
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<210> 5496  
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 <213> Arabidopsis thaliana  
  
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 atttggaatt gggaatcgag aagtttaaaa atggaggagg atagagagaa tgcaaaagag 300  
 agtagtggtt gtaactgtan gaacaacgaa gtttcgatgc tcttgtgaaa gcagtgggta 360  
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<210> 5497  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 caccaagcca aaccagcgtt gtttcagaca ttgatgggtc aacatcggct tcaccaatc 240



ctgagtacta cacctgggtc aagacagatc gagttgtcaa atcctgggtc cttgggttctt 300  
tcttagaaga tattctcagt gttgtgggtca actgcaacac ttctcatgag gtatggatct 360  
ctgtagcaaa ccactttaat anggtttcct cctctangtt atttgagctg caaagacgcc 420  
tccaaaatgt tagcaaacgt gataaa 446

<210> 5498  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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actgaagatc gcggaaggag gtagtccatg gcttagaacc accaataatc acgtcgggaag 180  
acagttttgg gagttcgatc cgaatctcgg tactcctgag gatctcgccg ccgtcgaaga 240  
agctaggaag tctttttcgg ataatcgatt cgtgcagaaa catagcgccg atctgcttat 300  
gcgccttcag ttttcaagag aaaatttgat tagcccagtt ttacctcaag tcaaaatcga 360  
agacactgat gatgttacag angagatggg ggaaaccacg ttaaagaagg gtcnaaat 420  
ccaatcaact atacangcac acgacgg 447

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<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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cgtnagcgan gaggatctca gcttctctga agatctcaaa gaagacgacg ttcccggcgc 180  
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 gcgttacttc actgatgtga ttgagaataa tcaatacggt ttgggttaat tttaancccc 420  
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 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 tgtgaaccac catgctaate cccacagctt cacttctcgc accaaaccca ttttctttct 180  
 ttctcaaaag cctcacaatt tccatgtctg ctggtctcga tgctctatgg ttcttgagga 240  
 agatgaaaag aagtcacga gtcctaaaag aaagacaagt gggcattttt tgacctgggc 300  
 ccgaatgaac ttaaacgggt cctaaccaag tttctccgaa naccgggaaa ctcggaact 360  
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<210> 5501  
 <211> 475  
 <212> DNA  
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 ctaccaatcg catctctttc tctgaccttg ttcccatcct cgactcaatt tctcaaattg 180  
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tctctttctt ctgtctctcc ttttccttct tccagaatct ctttcaaadc caccatcgct 300  
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gccgcgcgtc tccgcgcgtc tgcgtgcgtc tggtttcgca atgacctccg tgtccacgac 420  
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<210> 5502  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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tagttccctt cttcgcaaac tagaagaaca gatccagctt ccggttgata agtatggcgt 180  
tgaaggtgtg gaaaccggcg ggagtatcgt tcatttcgta gatgaaaatg aagtttatca 240  
gggtctcgatt tttcttcttc gaagttatga gcctccagta ctagtgtgtg ctatgaatga 300  
actgctggac ctaattacaa ggggatcgtc aactctaccc acaatcatag ctcccttcct 360  
tgtgggcggc atctaantc aagttcaata acagattcct gggaagcaaa ttacaagaaa 420  
gccaaagtct caatacgttc aagttgcaca gaaacanag 459

<210> 5503  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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gatctgaaaa aaagcgagct ccagattaca aaaagaaaca gctcgttttt ttcactttca 180  
aaaaaatgga agctttgagg atttatctat ggagtctctg tctctctctg tgtttgatta 240

tctatggagc aaactcagat ccattagaag acaaacgcgc attgcttgag tttcttacca 300  
 ttatgcaacc aactcgttca ctcaactggg aacgagactc tcaagtctgc aacatctggg 360  
 accggagtta cttgtaatca agacggattt cgaatcataa ccgtagatt aacaagcgtt 420  
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<210> 5504  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 tgttgcaaaa cttcatataa acttagtgag cggaactgga tttggggaga atggcttctt 180  
 ctttagctca atctagaatc tcgaatctcc agaatcatct ttcacctctt gaagcaaaca 240  
 acaagctcag gagtctgggc aagatttctc cccaagtatc tgaagccttg tctaattggac 300  
 gtgctgttgt cgctcttgag tcaaccatta tctcccatgg gatgccttac cctcaaaatc 360  
 tgcaaacagc aaaagangtg gagtcaattg tganagaaaa tggaagcaat cctgcaaca 420  
 anttgctatc cttaaattga atnncntgca aaagtctgaa ccaagaaagn actaagaacg 480  
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<210> 5505  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-020-Q1-E1-B7  
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 gctggagctt ctgtgcttgg ctatagagca aggagcatcc cgacagcgat agctgcaggt 180

gcaacactag ctgttacctc tgctttgatt gattctggag gtcagaccac aagagtagac 240  
aatggcagag aatactatcc ttacaccgtc gagaaaagag ctgaagctga ttcttgattt 300  
ctcttttggg cactgagatt aataagatgt gcattcgctg atccggggat cttgagataa 360  
tctcttttgt ttattttatc tggatatgtg atatcatgat actctttgct ctgttcttct 420  
tgtttcttga naggcacttc tcacatcttt gtcgaatgtt cctgcaataa aaatca 476

<210> 5506  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-G7

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aaggaagaaa gttacacgcg aatgcagaag agagtccga tgatgttaca gatccaccaa 180  
aagttgagga gaaaattggg ggtcacggtg gtttatcgac ggattccgat gtagttcata 240  
gagagtctga gtcgatgtca aagaagacgc ttcgcagtaa cgcggagaag tttgagttcc 300  
aagctgaggt ttctcggctt atggacatta ttatcaactc tctatacagt aacaaggaca 360  
ttttcttaag agagttgatc tccaatgctt ctgatgcctt ggacaaaatt angttccttg 420  
cactcactga caaagacttt tgggttaaag tgacac 456

<210> 5507  
<211> 392  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-019-Q1-E1-G9

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ttttgttggtt gttgggttca gatttggaag atttcctttt tttcgagttt cttctgaatt 240  
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<210> 5508  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 aggaagaang ttacacgcga atgcagaaga gagttccgat gatgttacag atccaccaaa 180  
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 agagtctgag tcgatgtcaa agaagacgct tcgcagtaac gcggagaagt ttgagttcca 300  
 agctgagggt tctcggctta tggacattat tatcaactct ctatacagta acaaggacat 360  
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 actcactgac anagacgttt tgggtgaagg tgacactg 458

<210> 5509  
 <211> 521  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 <223> Clone ID: LIB23-019-Q1-E1-H2  
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tgtcagtc aa atatgaggat tttgatctca ggaggagctg gattcattgg ttctcacctt 300  
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 gggttcaaagg acaaccttaa gaagtggatt ggtcatccaa gatttgagct tatccgtcac 420  
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<210> 5510  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-H5  
  
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<210> 5511  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-H6  
  
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cgccgacgaa ttggggaatc cggatagttc cggagaggaa ggcgtttgtg attgagcgat 240  
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 gtattgctta tgttcattct ctcaaggaag aagctatccc gattccgaat cagactgcga 360  
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<210> 5512  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
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<210> 5513  
 <211> 476  
 <212> DNA  
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caaatggagt gcttgagagt cccaccgtta gagtttgctg aagcggccaa aaccgtcgtc 240  
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cgaaagaacc ttccttggga ttaatcctct gcctctcaat cccccaacg ggtaagaca 420  
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<210> 5514  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-A11  
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<210> 5515  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana  
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caaggaattc tccggccagg ctcttggttc ctcccctcaa cagtacatgg aaaatgcata 360  
anaagtccaa tggatgaacc tgctgccttt tgggtctgaa aatgcctctg aattttactg 420  
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<210> 5516  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana  
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<210> 5517  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana  
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gtattggcgg tttctctctg ccttgctctc ctagatnctc acctgttcca gattttttctt 240  
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gttggttaaaa gaatgtttcc gaant 445

<210> 5518  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-B6  
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ctctttgagt ttgagtcagc tttgtgttgt gtctaaattc taaacaagtt tcagatcttt 300  
accttccctt gacttgtctc ctgtcttaaa actaggggtt aattttcttt ctctgttcaa 360  
gtctcagatt tgaccagctt ggtccagaat ttcgcttctc ctcgatcata aatcaaagtt 420  
gattcaaaga ggtttgattg agtcagagat ctctctttta gaaacatgtt gaagcaaagt 480  
aag 483

<210> 5519  
<211> 458  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-G6  
<400> 5519

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tcgccnaaga tgatgccgtc gccaccgtnc gcgaggcttt cegtctcggt atcaacttct 180  
 tcgacacctc cccgtattat ggaggaacac tgtctgagaa aatgcttggt aanggaacnaa 240  
 angctttgca agtccctaga agtgactaca ttgtggctac taaatgtggt agatataaag 300  
 aagggttttga tttcagtgtc gagagagtaa gaaagagtat tgacgagagc ttggagangc 360  
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 aagattgtna gttaaacatt cctgctcttc agaaactg 458

<210> 5520  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-B4

<400> 5520

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 tatcgacaat cctacacaaa tccataatca tggccgccac tgcttctctc gaagcttctg 180  
 aaggaccagt gatgggtctc atcaacaagc gtctccgtgc tctccgtaag aaatacaacc 240  
 gaatcactca aatggaagaa tcgatttctc aaggcaaac cctaaacaag gagcaaagaa 300  
 agaagtctc cggtctctaaa actgccgtcg tcctcctaaa tcgacgaagc ttgaaaagat 360  
 tcgtggcccc tctctngcc gncnttannn naaggaaatn aagcctcgct aatcaagctt 420  
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<210> 5521  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-B9

<400> 5521

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tctttaatgg aggtgataca cgcattggtct gctccaagat cactcagcac cactctcatg 120  
tactcctttg cccagagaga tgacattgaa gtgcttgatg agccattata cgctgcgttc 180  
ctcaagtcta cgggtgttga taggccttac aaagatgagc ttctctctaa gatggagtgt 240  
gatggagaaa aggtgggtgaa ggatatcatt tatgggtccag gaaagaagaa atataggttt 300  
tgtaagcata tatcgaaaca gcgacttctt ggtttgccaa gtgaactaat gagtgaaggg 360  
aagcacttta tattgatacg caatcccctc aacatattgc cttcttttga gaagatacac 420  
ccttcacgtg ttcacgaatt gggactggga nagt 454

<210> 5522  
<211> 474  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-018-Q1-E1-C2  
<400> 5522

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntgt cttgctccgt cgccgtatgt 180  
aattctccgg tgttttcacc gtcgtcttct ctattctgca acaaattctt gattctctcg 240  
tcaccgcaag aatctctttc tctaacgctt tctcatcgca aacctcagac ctcttctcct 300  
tcctctccat ccaccaacgt ttcttctcct aaatctccaa ttggtctccg ttccaaaaaa 360  
ctccgtccgg gattggcccc nggnccaata acctttggnt ttgaatccgg ttctgnatcc 420  
tctcctccgg ggaggtgttt taaagaggaa acgacctaca aggcttgata tacc 474

<210> 5523  
<211> 520  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-018-Q1-E1-D1  
<400> 5523

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aaaaccctct caaaaattcc aaaacataat ctcatttctc aagtttaaca ttttcgagcc 120  
 cctttagaac agtggagaaa gatccacaca gataaaaaaa cgggtgagtt ttatatcaaa 180  
 tagacgaaaa tgcccctgtc ggcgacggcg gatacaagca agacggtgaa gctggagagg 240  
 tacaatagct acctccggaa gattcacagc accaaagttc tcaacgcttc ttctaaagtt 300  
 cttttccgag caacgcttct cgtagctctt gtcctcgctc tcattctcgg ccatcaacta 360  
 ncctccactc tccgatagcc gcgcccgcgc aancaaaccn acctccacn gtcgtanct 420  
 ccttacccaa cgggannnnn nnnnnnnnnn nnnnnnnnnn nnnnancggt gganccgct 480  
 gggaaaagcg cgtaggacn atcctcaaca gncaaacgac 520

<210> 5524  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-D12  
  
 <400> 5524

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 caccctgtcc taggaatcct gctaaattca atgatataaa caaagcactc caggaaaaag 180  
 gatatggtaa ggctctgaaa agaaaacctt ggacgggtgt gacatgccct gtctgtcttg 240  
 aggttctca caactcggtc gtcctccttt gttcatctta ccacaaagga tgccgtccgt 300  
 acatgtgtgc cacgggaaac cgtttctcaa attgtctaga gcagtacaaa aaggcatatg 360  
 ccaaaggatg aagaaaagtg acaaaccgcc agantattg tgcccgttt tgtaaggggt 420  
 canggtaaaa ggctgga 437

<210> 5525  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-D2  
  
 <400> 5525

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catttcgtct cctcgttctt attcacgacc agcgatttca atcttcggtg tcttcctctt 180  
gtttcttctg gttttaacac taagctctcg aaaaccatca gattcatcct ccggttttagc 240  
tccaaatcga aacttancca caaaatcgac gattccgagg tttgcgtaat tgggaaacgg 300  
gaaccaaagg agatgggaaa cgaatgaanc gggctgcnta aancaatata tcaatcggag 360  
aaaattncna ncngnctcaa tttggatttc naaacctccn aanaaaaaaca aaantganct 420  
ngcgaaanta tgtgagattg ggagaaaaaa gaagtttgan gaatgttaan ggtaatgggg 480  
ttt 483

<210> 5526  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-018-Q1-E1-D3  
<400> 5526

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tcaatggcgt ctggatcttc gggtcgggtc aactcaggat ccaaaggttt cgattttggc 180  
tccgatgata tcctttgctc ttatgatgac tacaccaacc aagactcttc taatggtcct 240  
cactccgatc ctgcgatcgc tgcttccaac tccaacaagg aattccataa aacaaggatg 300  
gcaaggcttt cggttttccc tacaangctc ttacangtcc ancagaggat tcnttganc 360  
angacattag nngacactgg tcnaaaggnc cannaaagaa tgtttgccgg anaaanata 420  
ngcgcttttc ctgaagggtc caagttcang cntgtctcan cttgaactct aatgct 476

<210> 5527  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-018-Q1-E1-E1

<400> 5527

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gctaagatta cttctaagat gatcaactac aaattaaagt cgcgaatatc taaggtaatt 180  
cagttatttg ctagctatat gaatatttct gaaattttat atatacggtt agatttagtg 240  
tgtgcatgga tctaattccgt ctagtccatg atctagtgtg taaaaatcaa caaaagaat 300  
gaaaccacca ctactatagt attttaatct attgtgtcct gatattagta agaataatag 360  
ctgatatttt gattgattta tgagactaaa acaatcttgg ngcgtcattt aggtgcaaact 420  
tnaccnaant taaaatatgc caattctctc ctcaagaacc aattcnatat ttttagtggg 480  
aatgataaaa aattgcatat ata 503

<210> 5528

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-018-Q1-E1-E10

<400> 5528

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caggtcgtcg agcctgaagt taaaatatt accgacgacc gtcctgcgt cgtttatgcc 180  
gcccctccag caggcgaaga ggtcaacacg ggcctaacta tccttgatca agacaaggac 240  
gaaaccgttg ctgagcccgg gatttccagg aggtcccgtg aggagaaagg gaaaggaggg 300  
gctaaccaat ccaagaagag gtcggcttct gaagccggtt tagatgaggc cgctgctcca 360  
aagacgtttc gcctgtcgcg aggcgagact cttaattctg accagtttac gttcaagtat 420  
tctggtgaga aat 433

<210> 5529

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-018-Q1-E1-E3



<400> 5529

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ttaggtctac ctatattctt gttttgttcg gatctcttca acctcttcac tctctcgcct 180  
cctaaacctc agcctcaccg tctcatcag ccaccgcata ttctcacca gcctcgcct 240  
aatgcgatca tccccgaaac cctagacttt ccttcacaga agacaagggt gcttangagg 300  
agcaattggg atatggaaat acagtanaga tnaacttctg ntccngtnc ttacaaaggg 360  
gaantgcatt ccccatgang aaaagntnng aanaanggnt tttcccggt taaaatgtga 420  
atcctcgca aattaccac caacagcanc a 451

<210> 5530

<211> 511

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-018-Q1-E1-E5

<400> 5530

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gctgaggatt ttaaaacacc cataaaaaaa gtccgtgata gtgtcagagt atgtgaaaac 180  
caaagatagt tgccaagaga gatttgatga actgaagaaa caacttcaa ccccttcgac 240  
aaaagatctt ctcatgaca nacaatcgaa atgggacact anttacgaca tggtattggc 300  
tgctgtgaa caciaagagg tctctcntg tttgggaaac tgcgatcntg attannaaat 360  
attaacatcn ccctgaagaa tgggagaaag atngagattc ctttgccccg cccttgaana 420  
ntncttttgn accccggcaa atgtttttga cnggggccca actcgaatta cagcaaacga 480  
nttggttcca tggaaatgac aaaagcttca g 511

<210> 5531

<211> 517

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-F2

<400> 5531

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 atggtgatgt tgttgaagct gtgatcatga gagatcgtgc cacaggctgt gcacgtggct 180  
 tcggcttcat tgtctttgca gacccctgtg tctcagagag agtgatcatg gataaacaca 240  
 tcatcgatgg ccgcacggtt gaggcgaaga angctgtgcc tcgagatgat cagcagggtgc 300  
 taaagcgaca cgctagtcct atccacctta tgtcacctgt ccatgggtgg ggtggaagga 360  
 caaagaagat cttcnttggg angtttaacg tctancanta ccgaggangg attcaagaac 420  
 tactttgatt aattttggac aatgccgaag tttgttgtaa tgtatgatca taacacgcag 480  
 aaggcaagag gtttggttc atcacatttg attcana 517

<210> 5532  
 <211> 525  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-F3

<400> 5532

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 agaacgtggt gttgagcgtg gtggagaacg tgggtgatttc ggacgaggat tcggaggccg 180  
 tggaggctgt ggagatcgtg gagggcgtgg acgtggaggc cgtggtggtc gtcgtggagg 240  
 gcgtgccagt gaanaataga aatgggttcc aagtgaccaa gcttggtcgt ctcgtggcgg 300  
 ctggtcatat caagcagata gagcagatct atcttcattc actcccggtt aaggagtacc 360  
 agatcattga taagctcatc ngtcancat tganggatga ggtaatnaaa ancaatnccg 420  
 gttaaaaaac naancanggc ctggtcnaaa ggactanaat caanggcttt gttgtcgttg 480  
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<210> 5533

<211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-B11  
  
 <400> 5533  
  
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 aagctagaga cagacgtgga gatcaaggct tcggctgata agtttcacca catgttcgct 180  
 gggaaaccac accatgtctc caaagcaagt ccaggcaaca ttcanggatg tgatctgcac 240  
 gaangcgact ggggcacagt cggctctatc gtcttctgga attacgtaca tgatggggaa 300  
 gcaaagggtg cganngagaa gatngangcg gtggagccag ataagaactt gatnacgttt 360  
 aaggttatan aagggtgatct gatgaaaaga atncnaagaa cntcntgctc accatncaag 420  
 tgaccacctaa ncctggaagg cctggaaant attgt 455

<210> 5534  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-G8  
  
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 ggtggttggga aggtaagata ggatatggcg caggagcagg aaggagcggc cgttgagaaa 180  
 ggtgagccga atgattcctc cgccgtgcc gtggccgcaa ccgcaaccgc aaccgccgat 240  
 agcgtgaaag aagaagcaaa atggattctt ttcgcgtttg tggaatggga tattnagggt 300  
 tagaagggtga cnattcngag aangagactt catnacatcc tcaanggaaa gaaaccaact 360  
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 aaccgttcct ccgtantaat 440

<210> 5535

<211> 443  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-H10

<400> 5535

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tcgttctctt tcaaaaccca gaaacttgag tctctctggt tattctatgg gttcttctag 180  
ttcttctccg aaaccagaca acgtccaagg ttctttttta aaatttaacc tttttgaatt 240  
gattctgttt ctctctgatt atccgatgat tcccataaat cccatttcat gttgtgtact 300  
gtaatttgcg taaaaatggt ttctttcttt gtggggttag gttaatgagt ttgtctttt 360  
tccaaatggt atgtttgatg ttttggaaga gagatttaag tcagcaagtt tactcaattg 420  
gntctcaaaa gttagtgaag gag 443

<210> 5536  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-H11

<400> 5536

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gagggatgat ttgcgtgacg atacgaggag ctggaaccgg aagatcaaac cggagtatgg 180  
gttcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nntggatctg ttacttagat ttgtagaaaa tgttttcaga aagatttcta agagagcaag 300  
gaaagctgtc cgatcaattt tgcctgtttc gatctctacg aagctcgtgg gggttttcagt 360  
gaatggagta cttattcttg cttttttgtg gattttgaag gctttcctcg aagtagcttt 420  
gcacacttgg gaacta 436

<210> 5537

<211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-H12

<400> 5537

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ctattgggta cttttgtcgt gaagatgatg agcttttctt caattctagc tctcaggcaa 180
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gagagaatgg gttgcgtcat agtctaagtc agccaagtgg ttcgaattcg tttcttagtg 300
gtgttaagca acggttactt tcttttatct tcagggagat ttggaatgaa naatcagata 360
acgtaatgag agttcaaagt cctaagaaga aagttttaat tccaatttca aggattatgt 420
cnacttgat 429
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<210> 5538  
 <211> 502  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-H2

<400> 5538

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acacacgtcc ggtaccgtcc cggagatcag ctccgacatt tcctcgctg gatctctctc 180
gtcccagtct tcattagcct cgggtggattc gtctctcatt tccttttccg gcgtgagctt 240
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acatctgtag agcaagcgcg tcccgaagac atgtacgttg ctccaagctt gcgatcacat 360
ggattggcaa tcaagncaat ccgcaattca ggtcctcctt cgcaagttat tccantttga 420
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ctcaatgggc cttaacctgg tt 502
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<210> 5539  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-H4

<400> 5539

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 cagccttaca gtgaacaacc acaaacgatg tgtggatgga aaaggacttg tgctacccag 180  
 ccaaattaga tatgtgaaat actttgaaag aattttgacc tacttcaacg gggaaaaaca 240  
 aacaaggccg taaggtgtaa tgcctaaggg aatcccggtc ccaataaggt gtcccctaata 300  
 nggttaangg caaccaatca ataattcaag atnaccatgg gggttccct taacancaaa 360  
 aagnatcctc ngnacaaggn tnnncngta cgccantgnt aataccttaa tggtaacnag 420  
 tatttggtga anccttgga aatttcaaga attttcancc tgaaga 466

<210> 5540  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-H5

<400> 5540

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 cctgtttctc tctcgtttcc atcgacggag cttccaaaac gcaccgtttt agccgtgtca 180  
 aagccgcttc atctctcttc ttctctgaga gctaagtctc cggtagttag atgtgaagct 240  
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 aaatcagagg cggctaagaa attgaagatc gggatttact ttgctacttg gtgggctttg 360  
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 gaaattctcg atgaaccgcg ctctgangtt ccgagctctt catccatcag ttgttagaac 360  
 ccgganaaan atggggggcca aaancaaaan gattaggggt ttaannctaa attnaaacn 420  
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 ctgaatggcg acaccattta tagcgggggt tgcagtagct gcaacagcac ttgctggtag 180  
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 attttatgag ggcggtttcc agcctacgat gacgaaaagg gaagctgctc tcattcttgg 300  
 cgtcagggag agtgtagcgg cggaaaagg gaaggaagca cacaggaagg taatggtagc 360  
 aaaccatcca gatgcaggtg gtaccattt ccnaccncn aaatttatta ancnaaanac 420

gtnatgctaa gcaaaactaa aaacagcgga ttcgcttttt gatgcaaatt tcaatcaa 478

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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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gatacgcagc taaggagttt gccaatcaag gggttcaacc aggagaattg gctgttatct 180  
cgaaagagggc ggtggctcca tatgaacgcc ctgcacttag caaggggtat ttgtttcctg 240  
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ttcctgaatc ctacaagcag aaaggaattg agttgatacc aagcacanaa atagtgaaaa 360  
ntgatntctc tgccaaaatc ctgtcaatgc aactggggaa ntctcaantn nnaaagcnca 420  
aaaatncaac gggctctantg gtcccaaant gactgatttg gntaaaaagt gcagactctn 480  
agaatatcct ctatctgaga gagatgatga t 511

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<213> Arabidopsis thaliana  
  
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gtttgaagggt gctgttattg cactgttcca tatgctgata accaagtcca acaagggtgc 180  
ggctctccgc caagctttct accggcaaaa ccttccaaat gttaccaact tgcttgccac 240  
agtcttgatc ttctgattg tgatctactt ccaaggtttc cgtgtgggtt tgctgtgag 300  
atcaaagaat gcccggtggac aacanggttc ttanccaatc aagctgttct acacctctaa 360



caangccaat caacctncaa accggecten tencaaatec ttacttcant tctcaacttc 420  
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<210> 5545  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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ccactatctt tattgtagag atggagtctt caagtcccca ccatagtcac attggtgagg 180  
ttaatggttg aaaatctgat gaagagagaa taattgtggc gagtaaagtc tgtggagaag 240  
caccatgttg gttttcagat tctaagaatg cttccgggga tgctcacgaa cgctctgctt 300  
ctatgoggaa gctttgtatc gccgtccgtg ctgtgtctan tgttcatgag tgttgaagtt 360  
gttggtggga ttaaagccna ntagtttgnn naaatnaccn nnnncaacnn aaatttnccc 420  
ccnggaagnt gccgggcctt ggntaanctc cctctcttct caatgtgggg gctgctgggg 480  
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<210> 5546  
<211> 485  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-018-Q1-E1-B1

<400> 5546

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tctagtttgg tggggaagct agagacagac gtggagatca aggcttcggc tgataagttt 180  
caccacatgt tcgctgggaa accacaccat gtctccaaag caagtccagg caacattcag 240  
ggatgtgatc tgcacgaagg cgactggggc acagtccgct ctatcgtctt ctggaattac 300

gtacatgatg gggaggcaaa ggtggcgaan gagaggatcg aggcggtgga gccagataag 360  
aacttgatca cgtttaaggg ttatagaaag gtgatcttga tgaaagagtt cnagaannct 420  
ccntggncaa caatcaangg ttgacccctn aanccttggg aggcccttgg aaagttantt 480  
gttgc 485

<210> 5547  
<211> 450  
<212> DNA  
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<223> Clone ID: LIB23-017-Q1-E1-G5  
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ctgaatggtc ttggaatttt tagtgctggc gttcttgggtg cactttatgc actggctcgg 180  
caagatacaa aagctgctga ggaaaccatc gaatctctaa agaaccagtt gaaagacaga 240  
gaaagagcat tggttttgaa ggagaaagat ttcgaggcaa aactgcagca tgagcaggaa 300  
gagcggaaaa aggaagtaga aaaggcaaaa gangaacagt tgtcattgat caaccagttg 360  
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tgtgagaagc ttaaagatta aatcnaaaag 450

<210> 5548  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tcctgaaaga gctgttgaat acctgtactc gggatatccct gctcaagctg aaatcccacc 180  
agttgctcaa gcccagcta ctggggaaca ggcagccaat cctctagcac agccccaaca 240

agcagcagct ccagcagctg caactggtgg tccaaacgca aatccattaa acctgttccc 300  
ccanggcattg cccgctgcag atgctgggtg ctggagctgg taatcttgat ttctgcgta 360  
acagtcaaca attccaagcc ttgcgancta tgggtacaagc aaanccacaa aattctacag 420  
cctatgcttc angagctcgg taaacaaaac ccca 454

<210> 5549  
<211> 450  
<212> DNA  
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acaagacgat gtggcgctgc gtctctcgtg gctttcgagc tctgcttca aagacctctt 180  
cactctttga tggcgctctt ggatctcgtt tttccagatt cttctccact ggttctaccg 240  
atacgagatc ctcttatacg atagtggatc acacttatga tgcgggttgtg gtgggagctg 300  
gtggtgctgg tcttagggcg gcgattgggt tatcggagca tggctttaac accgcttgca 360  
ttactaagct tttcccaca aggtcacata ctgttgctgc tcaagggtgt aataatgctg 420  
cactgggaaa tatgtccgaa aatgactggg 450

<210> 5550  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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gagagtgtca acgacgatga agaataatgac gacggaggtg taggaccacc ttcttcgttg 180  
aagatgcttc ctccgacgag caataatatc tcagctgcat cgttttcatc gtctctatca 240

aatcatcaca acggaggtag cggtaatctc catcaccacc atcacangcc acaacaataa 300  
ccatcagagg aagaataatt ttccgcccac gaaagttttc agatcgtctc cttctccggc 360  
gccggtatca cctcttgtct cgacgtggaa agccgccgac ganatgatcg tgtttcgggt 420  
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<210> 5551  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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gtccgtctcc tctttctcca tagtttaaag cttcgtcgtt ccgtcaccag aatttcaact 120  
actttgagtt gattctcgtt ggattttctca cgatgggaga cagcgggaag cttgaggcaa 180  
cgatagatcg gcttctgaat gaagagaagc agatgagact cgccgaaaac gtagccggta 240  
caaggaaagc cgccactgag attcttcagc tttgtttcga tgctaaggat tggaaacttc 300  
tgaatgagca gattctcaat ctctctaaga aacgtgggtca gctcaaacag gctgtgcaat 360  
ccatggtgca gcaagcaatg cagtatatcg atcagacacc agacattgaa actcggatag 420  
agcttatcaa gacgctgaac aatgtatctg ctggaaagat atatggt 467

<210> 5552  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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attctcncta naaacaanaa tggngtctgg gcgtgaagag ttcgtatata tggcgaagct 180  
cgcgagagcaa gcggagaggt acgaagagat ggtagagttt atggagaaag tctccgccgc 240

cgttgacngg cgatgaactc accgtataag agcgaaanct tctctccgtc gcttataaga 300  
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agatccgtgg tancnatgac cacgtcacgg cgatntgtga atataggtct aacatcgaga 420  
nggaactctc cggnatcngc tacggaatcc ttangttgct tgactctana ctcat 475

<210> 5553  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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cggcaccgcc ctgggtgaga tattgaaaca caatgagccc tccacatctc taagcacagt 180  
tctgggcgag atgtttaaaa acaacgagga gaaggaacat attttttcgg atctagaacg 240  
aggaacaatg ctaacaagac caatgggcga aggatatatt caatatctac ggctttctaa 300  
agagaagact caaccggcgg attctaagat tcccgggtctt tgggtcttctt ccgttagacc 360  
agagttttgt tgcattctata gagtaccaag accgggttacg caaagtgaac cccgaggctt 420  
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<210> 5554  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-F2  
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tcgaatcgag accagatctg cgtgaagatg atngagaagt gtatangagc gcatcggttt 180  
cggagattac agagattcat gcgtcaaggg aaagtgacga ttctttgtct cgntctcacc 240

gtcatcgctn tangtggnac aatcggagcc ggtaagtttg gtacgccgga naaagatata 300  
gaggagatcc gtgagcattt cttctacacg cgtaaacng gcgagcctca cegtgtcctc 360  
gtcgangtct cttccaaaac gacgtcntcc naagacggag gaaatggtgg taacanctac 420  
caagaccttc gatataaga agctattcgt tgatgaanga gacgaaagag aaatctcnaa 480  
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<210> 5555  
<211> 446  
<212> DNA  
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cactcttggt gagcttggtg aaactctttg tcttgaggaa tgtgcgttgt ggatgccttc 300  
tcaaagtggg tttatatttg cagctttctc ataacttgag tcataaaata caagttggaa 360  
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cacatacctc aatcctgtgc ctttgg 446

<210> 5556  
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cgatccgctcg cttatctact atagctcgtg ctcttgagaga ggagcgtaca aggaaggagt 240  
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 aggagttagg agttttttatt ccgtttgttg gaggaattga gtttgcgcat gttcttcttc 360  
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<210> 5557  
 <211> 261  
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 <223> unsure at all n locations  
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<210> 5558  
 <211> 467  
 <212> DNA  
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taaccaaaagg cgacttcctt ggggaaaaat cacaaaggaa tnaaaaaant tatatgtcac 420  
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<210> 5559  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
  
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<210> 5560  
<211> 488  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-G3  
  
<400> 5560

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agtcacgtt acaaagtcna ccgtccggcg aaatccggag gatctcgacg agactcaagc 180  
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ggccctctc tgatgaacag gagcgaagat nagagggtaa gttcgagctg taaagatcta 360



gatntanaca agcgtggtac aaggtggaag aatanttgta actctagaaa atcaaatana 420  
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<210> 5561  
 <211> 460  
 <212> DNA  
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 <212> DNA  
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aagcccttca aagttttgta tacttcaacta aatagtcctt cacagctaac caattgggaa 360  
 aaatggtggt ggtgatcaag tggagagtca tggaaaggga ttacttgtga gggctctgca 420  
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 aaaccttagg agagttaaca tccctgcgga ttctgaatct caacggaaac tctttgtctg 420  
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 agata 485

<210> 5564  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 5564

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 agtgtgttac agaagagttg tgtcagtga ggctcaggtg acaacagata ctaccgaggc 180  
 accaccagtt aaagtagtca aggagtctaa gaaacaggaa gaagggattg ttgtcaacaa 240

attcaaacct aagaaccctt acactggctg ctgccttttg aacaccaaga tcaccggtga 300  
 tgacgctccc ggtgagactt ggcacattgt cctcaccaac gaangtgaag gttccgtata 360  
 gagaaaggac aatccaataa ggaattgant ccaagaaggg aataagacaa agaacgggga 420  
 aancccgcaa caaagctcaa ggctttactc cnatccgccg aattagttgc cattgggtgac 480  
 nttg 484

<210> 5565  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-B1  
 <400> 5565

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 ctccggcgctc gtcgtcgatg ccttctggct tcaaagccta cacggttcct atcttcctct 120  
 tcgtcctcgc tatgttcttc cagcttttcc ttcttcctcg ttcctttcct ccttctcatt 180  
 acgacgtttt ggggtgtaaag atgtacagct cagtggatga cgtgaaagat gcgtatcaga 240  
 ctgttgcttc taagtgggat tcgggttcag gagtttctct tccagctgat ttgttaaga 300  
 tacaatacgc ctatgagctg ttaacaaatc taagtatgga aaagggacta tgacttatac 360  
 gccattgatg aatcagtaca tattatagag gaacttgaaa aacaatatgc tgtggaagat 420  
 tttgcaaaaa taaaacttcc cctactggaa gttgtttcct aagaaccnga a 471

<210> 5566  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-B10  
 <400> 5566

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnga actatacaaa aacctacttt tangttctct 120  
 tccaagaagt caagaacca gaagaagaca tgacaagtga agttcttcaa acaatctcaa 180

gtggatcagg ttttgctcag ccacagagct catcaaccct ggatcatgat gaatctctca 240  
tcaatcctcc tcttgtaag aaaaagagaa atctccctgg aaatcctgat ccggaagctg 300  
aagtgatagc tttatcccc acgaccttga tggctacgaa ccgggttcct aatggtgagg 360  
gatgttgga aangttacca agaggagacc aaaacttaca gcttcagccg gggaaggaca 420  
taatcnttcc atggaaattg aagcagagga cgangcaaga gaagtg 466

<210> 5567  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-B11

<400> 5567

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cttcacaggt agtctcaatg gtgggcttga atcggactga ttcgaaaaag ctccgttcag 180  
atttcctcgg ccagattggt tacgaagatc ggagacaagt aagacacagt tactgtagaa 240  
gctcattagc tgtgaaaatg tcgtgggacg gtctcttgc ttccgtcaag ttgatcatcc 300  
aaggaaaaaa cctcgagtta tcagagccaa ttaagcaaca tggtgaagaa gaaaagtagg 360  
aaaatctgtt caagaaacac agtcactntg gtgagaaaaa tttatgttaa gactcctctg 420  
ttcntgggtg gaaaatttgg gtaaaaggcc ctaaggattc naaagaatgt g 471

<210> 5568  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-B2

<400> 5568

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gacagctccg gtgatcgac aagcaacgcc tggaagatca gtctacacgg tctcactcta 180

cctcccgaag aagaaccaac agaaccacc tcaggccgat gatctccacg ttcgggtctac 240  
gaaaccaact tacgtagccg tgagacagat cgggtggctac gtgtcgaaca atgtagccaa 300  
ggacgaagct gcggtcttga tggaaagcct cggggattct aactggattt tgcccatcga 360  
gaagagcaaa ggaaagttgc cggcgtatct tctcgtgtt tataaccgc catctcatc 420  
cacggctagg gtgattaatg agatcatggt tccgtttaac atgtanatna tgtaaatgac 480  
gcctcacgaa t 491

<210> 5569  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-B3  
<400> 5569

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acccaagga gatcacatca gtttttgggg gttttgagga atgaatttct tgcttcgatc 180  
tgctttctcc gctactcatc ggcctccggt gatcgaacca ccagctacgc cgcctcaacc 240  
tccccctgaa acagcgaagc ccggagttac tttggaaggg ctgattgctg aagagcattt 300  
cccacaatat ccatcagtag atgaagatct cgatcgtgtg ggtgatggat ctggagacct 360  
tgatggtaat ggagagtcaa atgctaagtc tgggtggctct ggtatggaga gattctctga 420  
tgtgtctgaa gaacaaggat ggatn 445

<210> 5570  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-B4  
<400> 5570

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cgtaaaccga aatcctcaaa agaaattgcc gatcggtttg ctactgttca aaacctcggt 180  
gccgagaacc gaaactgtcg gttttttcgg ttcgggtttc tcggtttctt ccgaactccc 240  
aggcctagtt tggttttatt tttcacgagt tttgcttctc ttttcacggy cgacgacgac 300  
gtcgagtttc tgtcaaaacg ttaacgatcc gactcgagcg tcgacagtaa gagaagaaga 360  
cagcgattgt gtgtagatcg acggcgaacg tgtgtcgatt cgtctcgatc gacggagaat 420  
acgtttcgat tcggtttcga ttcaaactcg aganttg 457

<210> 5571  
<211> 395  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-B7

<400> 5571  
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tccgttctct gataatggcg gtttctttga gaagaaagct cgtgtcttcc ttctattaaa 180  
aaagctaact ttcccccttt ttatactaac tttcaaaatg ggaaatttct gaaaaatgtg 240  
ttgcaagtta agcttgtgaa agtttcgatt tttcgttttg gggttcttaa attttaggac 300  
aattatttaa cttttttaan gattatagga taattantat ccgttgggaa gtaaattgng 360  
aaggctaagt nanttgatc tctttgatnt gttgt 395

<210> 5572  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-B9

<400> 5572  
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cgttcatctt cttegatcta actcgcgcgc gttcacctta taatggacac cgtcaacgat 180

tctttttcgc cgggatcttc cegaccttcg cggcgacgc tttctcgtga agattgctgg 240  
 agcgaggaag cgaccttcac gctcatccaa gcctgggggt aatcgctacg tcgacctcag 300  
 cgangtaatc tccgtcagaa aactgggaa agangtgggc taacgncgtt taagaacggt 360  
 caatacaaca accggtccaa aagttttcgg cggcaaatch ganccgttac gnaacgaagt 420  
 tcaantgtta aaancggatt gatactccga agaagaagtc aaagtcga 468

<210> 5573  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-C1

<400> 5573

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 ccgttccagg gctcatcgaa ctgctcgatt cgaaaaccat ctttggaac gtagccgaac 180  
 tcttagagaa agagaaactt tccatcaact acgccaactg cagaagctgg caccttggtg 240  
 ttgagacctc taacatcata gacttcgaca cggtgcccgc aaattgcaaa gactatgttg 300  
 aagactactt gatcacttcc aaacagtacc aatacgactc caaaaccgtg tgcaaagagg 360  
 cttatttcta tgccaaagga cttgccctaa agaacgacac cgtcaatgtt tggatctttg 420  
 acctagatga tacctcctct ctagtattcc tactacgna aatatggg 468

<210> 5574  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-C10

<400> 5574

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 nnnnnnnnnn nnnncnggcc acgtatttta gtgcgacga gtttaacatc gtctatgacc 180

tctaccaata gtagctggt ctttgtacat cctcatcctt tgattaaaca ttggctctcg 240  
 ttattgagat ctgaccaaac ttctttcccc attttcgta gaattccaat gaattctgtg 300  
 gttgcaacga ggtggctggt tctatcntca gtcaaangag gaanagcaag aatttatcag 360  
 aacgattnct ctaaaaagca tgtgggctgc gcatctggta tctcccttac actgcacaaa 420  
 aataanggtt tatgtttgag ctcanaggac ccaaggggaa anatattggg cgtgggttct 480  
 gca 483

<210> 5575  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-C6  
 <400> 5575

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 gtggtgatca cttgggtcga atactgatga agaaactggc tgatcggctc cttcatcggt 180  
 ttactaatca tgaaaccgct ttaaaccgcg gccaccactg tgatttctcg tctacccttc 240  
 tcttctcatg gctcagaggg gacagatcaa ggtacaagtg gtcttagtca taggaaggat 300  
 cacaggatgt cctctcatgg tgtccacctg catgtccatg atcgatatgt tgtgatggga 360  
 caatgggatc ctccaagtta cactgtcaaa gccaaagggtg aattatcact gggatagagt 420  
 ataacggtat tgacaatgtg ctcgaaagtt cgtnanaaag gagaatanca agaggg 476

<210> 5576  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-A11  
 <400> 5576

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tttccttctt cctcgttcct ttctctcttc tcattacgac gttttgggtg taaagatgta 180  
cagctcagtg gatgacgtga aagatgcgta tcagactggt gcttctaagt gggattcggg 240  
ttcaggagtt tctcttccag ctgattttgt taagatacaa tacgcctatg anctgttaac 300  
aaatctaata tggaaaaagg gactatgact tatacgccan ttgatgaatc angtcctat 360  
tatagaagga acttgagaaa ncaataatgn ngtnngaana attttgcaaa anataaancn 420  
tcccctaatz gaangntgnt tcntaangan cctgaaacgt gaaagggttt atgt 474

<210> 5577  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-E2

<400> 5577

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gtcgttgact ctcgttacac gaaggctact aaagaaaaag ctcgtctccg tcctttgatc 180  
tttgttcagg ctgcgattta tgtaatcgga ttatcgtgtg cgtttctaac aacaactaaa 240  
aaggatgaga agaacaccct tgctattgca gctgctgttg ctggcttagt gtgttcattg 300  
ataggagaat taggttgcat acgtagcaga gtaaaccctt tgaggctcta cacggctgca 360  
tcaaccattg ttatggttct ttctgtgttt tgtgctgtta ggagcagatt aaccatggan 420  
gaacgcaata gctctggaac aaccggaag cttgagctcg cangtttcat tt 472

<210> 5578  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-E3

<400> 5578

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taattctcct accgtagcct tttcttcttt atttgtcatc aacaactcct aaaattcata 180  
 tgaaattaga gaaatcgaaa cgaaaagata atatttttca agaaagagct acatatacac 240  
 cttttgacct tgtaaagttg gaaccctaga ggcctttcaa gcaaatcatc agggtaacaa 300  
 tttcttgatc tttcttttta gogaatttcc agtttttggc caatcatggc aaacccttgg 360  
 tggacgaacc agagtggttt aacgggcatg gtggaacatt cggctctctc aaggcatcan 420  
 caaaaccatc aacaacaaag tcc 443

<210> 5579  
 <211> 400  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-E5

<400> 5579  
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 atgttcgaag gtcgtcctcg tgattcttgt ctagtttcaa cacttttcac catgccaaagc 180  
 cataaagaaa cgaaatggag ctttttggtt tctgggaaac gatcttttct caacaacgat 240  
 gagtctgac ttcacttcaa gaagatgtac aagcttacta ctgattcaag tgaaggagaa 300  
 gacaatggat ctcttcagan tcaggaacac ttatcccagg gatgaacaga gatgattcgt 360  
 taagctgttt gattcgttgc tctagagctg antactgctc 400

<210> 5580  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-F1

<400> 5580  
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 tctgttctta ctggaaacaa caagaagaaa ctgatggacc atgcaagctt taaaggcttg 180

aaggatccaa aacgtaactc tcaagagaaa accctgagaa ccagcctgag ccggttgatg 240  
ccaacagtca gttttaatga caagactcta aactcaccca catctcagaa acgaaaatcc 300  
gctgtttatc ggctttcttt caaaaggagg tctgtgtgatg gtgaggaagt tactgagcaa 360  
cgtaagttgt tgtaccgtcc aaaagcggga ttcacaattc cttcctcggg cagagaaaag 420  
cagtctagcg gaagttggtc tgagataccg ctttcaactt tta 463

<210> 5581  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-015-Q1-E1-F2

<400> 5581

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cttctcacca ttcttaccag ctctcagggg attctaacaa ctctttctca aagtgatgga 180  
ggttataagt atgattatgc tactgttccc tttcttgctg aagtttttaa gctgatcatt 240  
tcctggttta tttctctgga gaaagatgcg gacatcttcc tcaacaactt caagggatta 300  
ctacgggatt ggaaagagtg tgcgattatt tgttattccg tctcctatct atctgataca 360  
taacaatgtg cagtttgcta cattgactta tgtgggatac gtccacttat cagataatgg 420  
gtaatttgaa gattgt 436

<210> 5582  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-F6

<400> 5582

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agttcacaaac aagtggtgac gtggcggagg tgatanagga gcttcgaacg gagaacaagc 180  
agttaannag agccgttgaa gatctccggg aantantanc aaacgtccgt ccatactcgc 240

cggcgacaat tgattacgga tcacactcna agtatcgga atccganagg aacaacagca 300  
ncancaacnn caacaccanc aacaacaacg ggagatcgag agctgatcgg tggagcagcg 360  
agagaacnac aacgtctgat tactgtggga agacagcncg gaagatggca atctacctga 420  
ggagctga 428

<210> 5583  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-G11  
<400> 5583

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tcaagaaatg gtttcaagat cgtattcaaa tctgttgag ttagcttcag gagactcacc 180  
aacgtttgga cgcatagaac gacaaatccc acgaatcatg gccgttgctg gaatcatgtc 240  
aaacatcgat aatgactcta aagacactga tctgtctcct aaagatcgta tcatcattgt 300  
agccaatgaa ttacctatac gagctcagag aanggttgat ggtaatggta gtggtagtag 360  
taataagtan tacttgttgt ancaaaagggt tggaactttt ccttggaag aagaaatcac 420  
tcntctccaa ntgaaagatg ggtaggaga tgaanct 457

<210> 5584  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-G2  
<400> 5584

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accgggaaga aaacagctcc atcagttaag gtggttgagc caacaatgct ggtcatgaaa 180  
ttcccacctg gcacatctct cccttcagcc gcattgctaa aggcgaggtt tggtcgcttc 240

gggctggttag atcaatccgc cattaggggtt ttctggaaat catcgacctg cegtgttgtc 300  
 tttctgtaca aagccgatgc ccagactgct ttctgatatg caacaggaaa caacactcta 360  
 ttggaacg tgaatgtaaa gtactttctc cgtgatgtgg atgctcctaa agccgaacct 420  
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<210> 5585  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-H1  
 <400> 5585

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 gattcccggc gggtgggtctc actgtcatgt aagtttgatt catcttctct tctggatctt 180  
 gagtgacgaa gagagaagag atctgagttt ttctgagaga gagatttttc tccctcgttg 240  
 acccgatcag tttttttcgt cgctggggat tttcaaattt tttttgaggg atcggttttg 300  
 atttgttacg tagatggcgg attcttcacc cgattcgtgt ttcaaaggag gcaaatttag 360  
 tgctccaggg ttctgatttc atccaactga tgaagagctt gtgatgtatt atttgaagan 420  
 gaagatttgt aggaagangc ttagagttaa tggtatcggg gttgttg 467

<210> 5586  
 <211> 497  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-H10  
 <400> 5586

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 agtgtcgaac ccgtctcatg gaacgaagaa gctatataaa gcaggacaga gtaggtggtt 180  
 agggataagg cccaaagtta gaggagtggc gatgaatccg tgtgatcatc cacacgggtg 240

aggtgaagga aaaagcaaaa gtagtggaag cagaggaagg acatcggtta gtccgtgggg 300  
 aaaaccgtgt aaaggcggtt acaaatcagc tagtgtcaag aagaagaaga agcgtttggc 360  
 agaagcagca gccaaaatgt gatatgggtg aacaagtttc gattttcctc aaacgtttcc 420  
 ttcctttaaa aagcctccaa tgtaattgg ttacgttaaa aaaaaaaaaa aaaaggcggn 480  
 cgctctaaaa gattcaa 497

<210> 5587  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-H3

<400> 5587

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 gaggaaagct acatagtaag agaaggagat ccggtagacg aaatgctctt cataatgcgc 180  
 gggaagcttc taacaatcac acaaacggt ggaagaaccg gttttttaaa ttccgagtat 240  
 cttggagccg gtgatttctg tggtagaggag cttttaacct gggctttaga cccacactca 300  
 tcctcaaacc tccaatctc aacaagaact gttcgagctc tcatggaagt tgaagctttc 360  
 gcacttaaag ctgatgacct caaatcgtg gcttcccagt tcagacgtct tcacagcaaa 420  
 cagctaagac atactttcag gtactactca caacaatgga agacttgggc c 471

<210> 5588  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-H4

<400> 5588

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 aattcctaag gttgtttgcc gtttcattaa ccggtattoga gactcttccc gctggatttc 180

tttttttcac gtcttctttt ctatttttta tggatttggt attttgacat gttaagcaac 240  
 cttcggttaat cagtttaaaa tcggtgcttt ccgaaatttt tagaagaaac atggaagctt 300  
 aaaattttga aattgctatt tggaaaagct atcatttcat aggcttagtc tttgtaattc 360  
 ttctttactt gttgttcatt ggcataaata tatgaaggat tttatatttg attgtgtgtt 420  
 tgtttatgtt gttagaaatt gatcaaaatg ggaaaa 456

<210> 5589  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-H9

<400> 5589  
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 cgcgttcttt ggtgtcattt tcctatccgt tcaaacgggt ctagccattg cgggtggggct 120  
 atcgttgttc aagatattga tgcaagtaac aaggccgaaa atgggtataa tgggtaatat 180  
 tcctggaacg gatataatcc gagatcttca tcattacaaa gaagcacaaa ggatccccggg 240  
 atttcttggt ttaagcatcg aatctcctgt caatttcgcc aattctaact acctcactga 300  
 aagaacatct cgttggattg aagaatgcga agaangaa gctcaagaga agcattctag 360  
 cctacagttc ttgattcttg aaatgtcagc cntgagcggg gtagacacaa acgggagtg 420  
 ctttttttaa ggaacttaaa gaaaacaanc gccagaagg acatccagcn tgtgtttgtg 480  
 aaacctctaa gcgaa 495

<210> 5590  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-A10

<400> 5590  
 acgntccac tcttctcacc ttgatatttt tcagagaggg agagatgatt tccgatcatt 60  
 gctatgtcgt ccgattttct tcgtcaaggc cgtccggttt gtcaaccggc ttcagcccga 120

catccatatg cctcttgtga tgtggtttgt cggttacttt cccggaatct tctggctcct 180  
 ttagcagaat tgtccgggtgt cgcgcctctc catcggttgg ttctctacc aacggtggtt 240  
 ggctcttgtc tagcttctcc gtcgtccctc tccggcgggt taggctagct tttggccgga 300  
 tttcttttcc ggttttgttt tatgttctcg tttctatag atccaagttt gattttgctc 360  
 cnttgtgttc naacncgtaa agggctcaat tccttgaaac tcnttgttt aangggccaa 420  
 nttgtttttc aagegtatcg atttcaatta agt 453

<210> 5591  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-E10  
 <400> 5591

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 agaaaaagct cgagagacgc catggaaatt tcccaagctc gttcaagctt cgtttgtctt 120  
 cttcttctgt tactctccat gtgtttcgtt ccctgcgtct tttccaaatc tctcgtcct 180  
 atctccgatg tggagatcag gcagaagaag agcgaatgct acggtgatat agagagtggg 240  
 ttatgggggt ggcaatgcaa atcttctgca atagcgaaag agaattgtgc gctgcgatgc 300  
 ctttctccgg tttgtatca actcatttat gagagtgatc cgcttgaaga aggtgaaaaa 360  
 gatttgatta ngagccaaga atacaagtat gtatgtacaa gtcactcctc ggggaaaagc 420  
 ttanaagggtg ttcgaagcat cttttgatgg tatcaaataa gactttctca n 471

<210> 5592  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-B2  
 <400> 5592

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 tgcgtgcctt acccggtca aggccacatc aatccgatgc tgaaagtggc taaactcctc 120



tacgctaaag gctttcacgt caccttcgtt aacactctct acaaccacaa ccgtctcctc 180  
 cgggtcccgtg gtcccaacgc gtcgcacggg tttccttcat tccggttcga gtccatccct 240  
 gacgggtctac cggagactga tggcgatagg acgcagcata ctctaccgt ttgcatgtcc 300  
 attgagaaaa actgtctcgc tccattcaaa gagattctgc gccggatnaa cgataaagat 360  
 gatgttcttc cagtgagttg tattgtatcg gacgggtgtga tgaattttac tcctgacgca 420  
 gccgangaac t 431

<210> 5593  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-015-Q1-E1-B4  
 <400> 5593

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 tctgttctaa ttgttacggc gatctttgtc tcaaacaaca acaacaatcc tcctccatca 120  
 aatccaccgt tgaatcttcc ctctctgtat ctctccgtc gtcacatca tcggagatct 180  
 cttctccgat catccctect ctcttaaaa atccatcagt caagctagag gtaccggaga 240  
 aaaaggcggg gatttcgctg ccgacgacgg agcagaatca gcaacagagg ccgaatcggg 300  
 gcacgacgtg taggaaacgg gtcgggttaa ccggattcaa gtgccgggtgc ggtacgatgt 360  
 tttgcggggt tcaaaggtag ccggagatcc atggatgcag ctacgatttc aaatcggccg 420  
 gacttaaaga gat 433

<210> 5594  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-B7  
 <400> 5594

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 tttgattccc aagaaagctc tgaaacagtt ggaaaatctc aatctgtttc cacacaacat 120

tgtcttttcgc tctgtcaccg tccctcatgt ggatggtctc cccgttggca cagagacagt 180  
ctctgagatc cccgtgacat cagctgatct cttgatgtct gctatggatc tcacacgtga 240  
tcaagttgaa ggtgtggtcc gagccgtgga accggacctg atcttctttg acttcgctca 300  
ttggattcca gaggtagcta aagactttgg gcttaagact gtaaaagtta cgtcgtggta 360  
tctgcatecg actatancta gtaagccttg gttccaangg tggtaattt angttgtttc 420  
ctccgcccg ggataaccct ttcaa 445

<210> 5595  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-C1

<400> 5595  
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gatgaatctg tctgcaccat gttcggatct cgctatgttc gcactacact tccaagtat 120  
gagattggtg agaattcgat accgaaagac gctgcgtatc agatcataaa agatgagctg 180  
atgcttgatg gtaaccceaag gcttnaccta ncttcttttg tgactacatg gatggaacca 240  
gagtgtgaca aactcatcat ggactctntc aanaacgaac tacnttgata tggatgagta 300  
ccctgtcaca actgaactcc anaacccgat gtgtnaacat tatagntcga ctggttcaaa 360  
tgccccact cccaaggaat cctgagaacn gccnggtgng gaantanggg acaatttggg 420  
gtcntcaag aaaanccatc aatgttaanc cccggaattg ggccttcaaa aa 472

<210> 5596  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-C10

<400> 5596  
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acttgatgat ccctgatggt ttcattgaag attttgtctt tgatgatact gcttttgtct 120

ccggactctg gtctctagaa ccctttaacc cagttccgaa actggaacct agttcacctg 180  
 ttcttgatcc agattcctat gtccaagaga ttctgcaa at ggannnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nntgaggttg agactgtctc aaaccggaaa aaaacaaaga 300  
 ggtttgaaga aacgagacat tacagangcg tgaagaagga agccatgggg ggaaatttgc 360  
 agcagagatt cgagattcgg caaaagaaag gatncaagat ttgggttanc acttttgaga 420  
 gtgatattga tgctgcaagg gcttacgact atgcagcttt taagctcang ggaaga 476

<210> 5597  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-C11

<400> 5597

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 ttgggatgaa atgggcgaag tacttggttg gtatatgcgc tttaaaggga atgaccacaa 120  
 gctgtgttggt tggctctcta ggccaagctc ggtacaccac tcagattgct cggctctcata 180  
 tgattcctcc atgggttgc ttggttcac caaaaacagg aaccctatt tatgctactc 240  
 tccttgtaac catactcagt tcaataatat ccttcttcac cagcttagag gttttatcaa 300  
 gcgttttctc ctttgtaac ctcttcattt tcaagcncct ggcaattagc attgcttggtg 360  
 anacttttct aacgttgaaa nggatnncac tctgaaagg ccggtttgtt naaantttcc 420  
 cggggttttc ccggtttttt gaaaaatggc ttccctccat tgggan 466

<210> 5598  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-C5

<400> 5598

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 catatgtggg cttgaacttt tcggtgtatg agtctctaaa ggactggcta gttaaagaga 120

acccatacgg tctantagaa aacaatgagc tgacgggttg aacgaggctc acttggtgtg 180  
 caatagctgg aacagttggt caaacaattg cttatccact ggatgtgatt cgtaggagaa 240  
 tgcaaattggt cgggtggaaa gatgcttccg ctattgtaac angcnaaggg agaagcacag 300  
 cttcacttga atacactggt atggtcgatg catttagaan aacagttcng tcatgaaagc 360  
 cttggagcat tgtacnnngg gtttggtccc caantcagtt aaangttgta ccaac 415

<210> 5599  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-015-Q1-E1-C8  
 <400> 5599

acgcgtccga attttgcaaa acagcgaaaa tagttctttg tgattttcga gtgagagaga 60  
 cgacagcttc cattatcccc tgtctctctc cctctcgaac tacaaatcaa attcgagtgt 120  
 tttcatattg ttaatctttt tttcaagga aagaagagat tttgttttcc gtttctgggg 180  
 gtttttcttg attctgatct ctgatctgat ctcacatca ttgtccgtgg attctccgat 240  
 gggtttctga ttgtgggttc tttcaaattt cttcactttt ggagcttttc ttctctctgt 300  
 cttttgtttt ccctcagcta tggcttgga tgagaccaa ctcaagaggc tctatcaagt 360  
 ttggagagga agcaataaat ttctatgtgg cgggaggcta atatttggtc ctgatgcac 420  
 atctct 426

<210> 5600  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-D1  
 <400> 5600

ctgttacttt gccggtcccg gtccanaatn cacgggcntc accccaactg tantagtact 60  
 gttcgtcttt cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnccc ttaaaactca aactactaaa aattttcagt gtcgattcaa aaagttttgt 180  
 tatttgatct gtttctgtgt aaaaaaatg gtgaaagatc tggttgggta tagattttat 240

ccaacgggag aggaattgat aaaccattat ctaaagaaca naattttggg taagacttgg 300  
ctcgtcgacg aagccattag cgangatcaa catctgtagt tacgaccaa tttacttgcc 360  
ttctttatcg angataaaat cggatgatcc tgtgtggtac ttcttctgtc caaaggagta 420  
tacttctgcg aagaanaagg taacgaagag gactacaagt tcanggtatt gga 473

<210> 5601  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-D12  
<400> 5601

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gaaaccaggg atgacgaggg atgatctgtt taacattaat gctgggattg tgaggacact 120  
ctctgaagct atagctaaat gttgtcctaa agcaattgtg aatataatca gtaatccggt 180  
gaactccacg gtgccaatcg cagctgaggt tttcaagaaa gctggaacct ttgatccaaa 240  
gaaactcatg ggtgtcacta tgcttgatgt tgtagagct aatacctttg tggcggaagt 300  
aatgagtctt gattcccgtg aagttgaagt tccggttggt ggaagacacg cangaattac 360  
gattttacca ctgctttccc angtgaaacc tccttgctcc gttcactcaa aaagagattg 420  
aatatctcac anaccgcatc caaaaacggt ggcaactgaa 459

<210> 5602  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-D2  
<400> 5602

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ccattagatc agctattgtc actacagctt ggagaacaga tccatttgga gagcagatat 120  
ttgcagaagg gtcacctagg aagccagctg atccattcga ctatggtgga ggccttgtga 180  
atccagagaa agctacaaaa ccaggtcttg tatatgactt gggactcgaa gactatgttc 240

tctacatgtg ttctgttggg tacaacgaga cttcaatctc tcagcttgtc ggtaaaggaa 300  
ctgtctgttc gtatcccaaa ccatctgttc ttgatttcaa cttgccttct atcacaattc 360  
caaatctcaa agaagaagtc actcttccca gaaccctcac taacgttgga ccacttgagt 420  
cngtcataaa 430

<210> 5603  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-D7  
<400> 5603

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tcacatttct tcctcttttc tctctttttt ctcagtcttc aaagagtttc ttagtaaccc 120  
aaatcaatgg caggtatcaa agttttcgga caccagctt cgnntgcca caggagagtc 180  
ctcatcgccc tccacgagaa aaacctcgac tttgagctcg ttcattgtcg actcaaagac 240  
ggtgagcaca agaaggagcc ntctctctcc cgcaaccctt ttggtcaggt tccaagcctt 300  
tgaagatgga gacctcaagc tcttcgaatc angagcgatn actcagtaca tagctcaccc 360  
gntatgaaaa ncaaggaacc anncttctcc aagaccgact ccaaggaaca tatctcangt 420  
acgcaatcat ggccattgga atgcaagtna gaagattagc aagttcganc cagttg 476

<210> 5604  
<211> 535  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-D9  
<400> 5604

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ttccattagg atacttcttg aatcggccat acgtaactgt gatgagttcc aagttaagag 120  
caaagatgtt gagaagattc ttgattggga gaatacttct cccangcagg ttgagattcc 180  
gttcaagcct gctcgggttc ttcttcagga ctttactggg gttcctgctg ttgttgatct 240

tgcttgcattg agagatgccca tgaataatct cgggtggtgat tctaanaaaa ttaatccgct 300  
 ggccccgtga gatcttgtca ttgatcactc cgttcagggtg gatgtggcga agatcagaga 360  
 acgcagttgc aaggcaanan atggagnctt ggagttccaa gccgttaacn atggaaaaga 420  
 atttggtttt cctnangtgg gggattcgaa ggccccctttc anaagcatgc cttggtngnt 480  
 acctentngg gaatnnggga atagtttcan nccaagttca gccctangaa atagc 535

<210> 5605  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-B12

<400> 5605

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 gtgggagcga tgggtggtaa caagggtgga gcattcgacg atggtgtttt tgatggtgtg 180  
 aagaaagtaa ttgttggaag agacttcaac aatgtaactt atatcaaggt tgaatacgaa 240  
 aaggacggaa aattcgaaat tcgtgaacac gggactaatc gcgggcagct aaaagagttt 300  
 tcaagtggat tatccgaaan gaatatatca cagccgttgg tggaaactac gaacacngnt 360  
 tttcgggtta ngggttaanc gtttgaatca anttcattaa ctcttcaaaa accncttaat 420  
 ggaannaacc tctccaaatc cttgggtcan acgaacatta ctnagggaat ccaa 474

<210> 5606  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-B2

<400> 5606

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 tctcgtctct ctgtgtctcc gggataagta atcgaagatg aatatgattc agcgattcat 120  
 gcaatctatg gcaaagacgc gtggcctctg tcatccagat tgcgtaaaag caagtagtga 180

gcaagaagat tacgatgcgt ctcagctcag tatttggtgg ataatgctgg gaaggaagac 240  
gaccagggag aaatggatga accaagctct cagttcacta tcgaaaactt gcatcagtat 300  
atggtggaaa atgtctggaa taagaggtaa gatgtgcagg gagagggagc aaccactcac 360  
tgtcaaagac tgccttgaat gtgctttcaa gaaagggcta ccgagaagag aacattgggc 420  
acatgtggga tgtacattca agggcccccc atttgcocttg tcacaa 466

<210> 5607  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-B4

<400> 5607

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tttaacgaga gtatcggaga gattcagggg attgcgacgg ctgcgtttga gaggtcaaaa 180  
ggacggtggg cttgtttgca gaaacggacg gaggtgaagc ttcaggatct gccgtacgtg 240  
cttgagactt gttgtgtgtt gcataacatt tgtgagatga ggaaggagga gatgttgccg 300  
gagttgaagt ttgaggtttt tgatgatgtg gcggtgccgg agaataatat ccgatctgct 360  
agtgcgggta atacgagga tcatatctct cacaatctct tgcacgtgg acttgccggg 420  
acaagaactc tataggctct gtttttcacc ttttcctaatt ttgaaactga tttttta 477

<210> 5608  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-B5

<400> 5608

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnagatccag 120  
ttttaggggt ttcttctctg tgagcgaaga tgcgtgagat tcttcatatt caaggaggtc 180



aatgcggaaa ccaaatacgggt tccaagtttt gggaagtgggt taatctcgag cacgggattg 240  
atcagacggg acggtatgta ggagattccg agttacagct tgagagggtt aatgtatact 300  
acaacgaggg gagttgtgga aggtacgttc ctgcgctgt tctcatggat ttggagcctg 360  
gaaccatgga caagtgtcaa gatctggtcc gtacggtcag atctttcgac cggataactt 420  
cgtcctcgggt cagtcgggtg ctgggaataa ctgggctaaa agtcactac 469

<210> 5609  
<211> 458  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-C10

<400> 5609

attcccgggn cgaccacgc gtcenatcta ctcttaataa cgatcaacag tggagacatg 60  
tactacaact accactgtct cacaagaaag gtgtaacttg tatcaccgct tatatggttt 120  
ctgaaaccga tgcaatgttt gcttcagctt cttctgatgg agttgtgaat gtctgggatg 180  
tttcttttcc gtctcagcct agtgaggaat gtaaagtgggt gtgtctggac tctatctgtg 240  
ttgacactaa agcaattgta acgctttcat tagcgggaatt gcctcaaaat cctggtcgat 300  
ttgcccttgc tttgggcgga ttggacaaca aaatcaaact ttactctgga gaaagaacag 360  
gaaagtttac ttctgtttgt gagcttaaag gccacacgga ctgggattcn gagtttggac 420  
ttctcattac cgttacacac aacagaagaa atacccaa 458

<210> 5610  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-C9

<400> 5610

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aaatcgga aaatgcacg ccaaaaccga ttccgaggta acaagcctcg cagcatcatc 120  
accagccaga tctccacgta gaccaagtct actacgtcca atcaccatca cgcgactctc 180

acgacggaga aaaaacagca acatcgtttc actcaactcc agtactaagt ccgatgggat 240  
ctccaccgca ttctcactca tctatgggtc gtcactcagc tgaatcatct tctagtcgat 300  
tctctgggtc tttaaagcct ggatctagaa aagtcaaccc taacgatggt tctaaacgga 360  
aaggtcacgg cggtgagaaa cagtggaaaag aatgtgcggt tattgaagaa aaaggtttgt 420  
tagatgatgg tgatngaaac cggggg 446

<210> 5611  
<211> 464  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-D4

<400> 5611

gtttgccagg nccggtctag aatanacggg tcgagncacg cgtccgaaaa aaccttcggc 60  
ttcgtctcgt caatggcggc catttctgta agttcttcac catctattcg ctgcttgaga 120  
tcggcatggt ccgattcttc tctgtctctt gtatcctcga cgcgtgtatc gttcccggcg 180  
aagatttcat atctctccgg tatatcttcg caccgtggcg atgaaatggg taagagaatg 240  
gaaggattcg ttagaagcgt cgatgggaag atctctgatg cgtctttctc cgaagcttca 300  
tctgcgactc caaaatcgaa ggtgaggaag cacacaattt cagtatttgt tggagacgaa 360  
agcggaatga ttaatangat tgcangagtg ttgcaagga gaggatacaa tattgagagt 420  
cctgccngtg ggctgnaaan anacaaaggt ctaaatacc aana 464

<210> 5612  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-D5

<400> 5612

nccccggcgg tacaagtcan aaattcccgg gccgaccac gcgtccngtt ctctctcttc 60  
tgaaccacaga aaccctgaag tggaggcggt gataaacata aagaacgagt tacatgatcc 120  
acatggtggt ttcaaaaact gggatgagtt ttctgttgat ccttgtagct ggactatgat 180

ctcttgttct tcagacaacc tcgtaattgg cttaggagct ccaagtcagt ctctttcagg 240  
aactttatct ggggtctattg gaaatctcac taatcttcga caagtgtcat tacagaacaa 300  
taacatctcc ggtaaaatcc caccggagat ttgttctctt cccaaattac agactctgga 360  
tttatccaat aaccggttct ccggtgaaat ccccggttct gttaaccagc tgagtaatct 420  
ccaatatctg aggttgaaca acanctcatt atctgggccc tttcct 466

<210> 5613  
<211> 485  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-E10

<400> 5613

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tgaagcagag agacatactt acatatgtgt gattcttccc taagaggaat tctcaaaaat 120  
caaagcatct ctctcttctt tcctaaacgt cgacgagtgg agtccttggc gcgatcaaga 180  
ttcaaaagaa attcggggac tactactact caagactaaa taagatagga aatggggttga 240  
tacaaagaag ttgtcctttt aagaattcca tcactaggag ttggaaagtc tgaaccagag 300  
actttggtgt gcttctccaa aaacgacgag agtccagcgt ctagcagtat cangcaactc 360  
tcttctact agattcnttc acaccatcan naaggagcca ttatgggagg gggaaacttgt 420  
gtcgtttgca ggtanacang ctttgggacc tactgagcca ngaatacacg cnaacttcacg 480  
ggagt 485

<210> 5614  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-E12

<400> 5614

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gggcatgagt gttctcggtt ctcaggtgaa tcgtctccgg aaaatgaaca aaccagtcac 120

cgagattggt tgcgcttcta ctggagatac ctccgctgct ctctctgctt actgtgcttc 180  
cgctggaatc ccctcgattg tcttcttacc tgccgataaa atctccatgg ctcagcttgt 240  
gcagccgatt gcaaacggag cgtttgtgct tagtattgan actgattttg acggatgtat 300  
gcatttgatc agagaagtta cgggcgngag ctctctatctt actttggcga aactctcctc 360  
aaacangnct ccgtctccna aagggtcaan angacgggag gcgattgaan attcctgc 418

<210> 5615  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-E3

<400> 5615

ggccccggtca nagnattaac gggtcgancc ncgcgtccga gaacattctg caaagaggca 60  
aagtttggtg gaagagatcg aacgtgagtt tgaagctgct acaaaagaac ttgaacaact 120  
aaaggttaat gacttcaccg gggacaaaaga tgacgaagaa cactctgcaa agagaaaaag 180  
tatgcttgaa gctattgaac gcgagtttga agctgctatg gaaggcattg aagcacttaa 240  
ggtttctgat tccacaggaa gcggagatga tgaagaacaa tctgcaaaga gactaagtat 300  
gcttgaagag atcgaacggg aatttgaagc tgcttcaaaa ggtcttgaac aactaagggc 360  
tagcgattca accgcggaca ataacgaaga agaacacgct gcaaagggac aaagtttgtt 420  
agaagagatn gaacganagt tcgaagctgc tacagagaac cctta 465

<210> 5616  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-E7

<400> 5616

attccccgggn cgaccacgc gtcnccccac gcgtccgccc acgcgtccga aattatctcc 60  
gagcattctc aagttgggtg attcgggtacg gattactgat ttgggagaga aaaaccctag 120  
attggaatta gattctgggt tcttgggcta aaggtttctt catctccttc gaatcatcct 180

tttagggagc aagacgatga gtagaaaccc tttcctggat cctactcttc aagaaattct 240  
tcaagtgatt aaacccacac gagcagatag ggatacgagg atcacagtca ttgatcaagt 300  
tgcgtgacgt cttacaatcc gtanaatggt taagaggtgc tactgttcaa ccatttgga 360  
tcctttgtgt caaatctctt cacacgatgg gggagactta gatatctctg ttgactaatc 420  
agcggttctc catccttggg cactg 445

<210> 5617  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB23-013-Q1-E1-F12  
<400> 5617

acgcgtccga ataagagctt ttttcgcgtt ttccaccgca accaccgtca ccttcaaccg 60  
ccggagccgc cgcaaggaag gctcatcatc cgccgtggca attttttgag gtgtacaaag 120  
cattgcctat ttgacgaacc aggaaatggt taaaaggcat ggagagtttt gatttacaag 180  
atatatcatg tcgcagtga tagacggttt caagcatgta tgctcctctt tttccggtg 240  
ttttgatatc gatatttaca aacaatctgg aggccttggg gaccctgaac ttcttgcgag 300  
agagacatta gcgtgagtga aatagaggct ctctatgagc tgtttaagaa aatcagcagt 360  
gctgtgattg atgatgggct aataaacaag gaagaattca gttagccttg ttcaagacaa 420  
ataaaaaaga gaacttggtt gca 443

<210> 5618  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-B11  
<400> 5618

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ggactcgtat tgaagggcat tatgcgcgcc cacaccgaca ttgtcacggc catcgctacg 120  
ccgatcgaca attccgacat catcgtcaca gcgtcgcgtg acaaatccat catcctctgg 180

aaactcacia aggacgataa gtcttacggt gttgctcagc gtaggctcac aggtcactct 240  
 cacttcgtgg aagatgttgt tctctcatcg gacggtcagt ttgcactctc cggaagctgg 300  
 gacggtgagc tccgtctctg ggatcttgcc acgggagaaa caactcgtcg attcgttggt 360  
 catacgaaag atgtgctctc tgttgcatte tctactgata accggcagat cgtgtctgcn 420  
 tctcgtgatc gtacnataaa c 441

<210> 5619  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-012-Q1-E1-F9

<400> 5619

caaaccgggt ccggccacgc gtccgaccaa ncgtccggtt cgatctagct aggcacatg 60  
 caccttcgac aatatttctt gatgagatcg acgcgatcat aagccaacgt ggtgggtgaag 120  
 gccgcagtga acatgaagct agcaggcgctc tcaaaaccga nctgctcatt canatggatg 180  
 ggttacagaa aacgaatgag ctctgatttg ttttagcagc aacaaatctc ccctgggaac 240  
 tatatgcagc tatgctccgg cgtctanaga aacgaattcn tgtaccttta ccggatccag 300  
 aagcaagaag aggaatgttc gagatgctta taccgtcaca accaggtgat gagccattgc 360  
 ctcatgatgt gttgggtgag aaatctgagg ggctactctg gttcaagaca ttcgaatact 420  
 ttgtaaggaa ctgcgatgca ancactga 448

<210> 5620  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-012-Q1-E1-G1

<400> 5620

gnggggcgca actcttcagg gccaccggctc ataaatcccg ggtccacca cgcgtccgaa 60  
 aatgtttttt ttgaaggag agaaagatttg atttgctaac aaagtggcga aagaagggtg 120  
 gagtcttttt gatgggatat acaaatttta gaaacctgtc tcttgggagg ggggtgaang 180

acttaantgc ggccataggg atctgtaatg ccttgagggg tggacctgat atacttgttt 240  
gcgacnaggc tcacatcatt aagaacacca aggctgacac aacgcaanca ttgaagcaag 300  
ttaaagtcca gagaanaatt gcccttaact ggctcacccc ttcaaagaca atctcatgga 360  
gtattnnatg tatgggttga ttttgtagaga agaaggattc tttgnngaaa nttccccccn 420  
gaanttttag naaacgcgtt ccaanantcc caatagaaac acggncatca atatganttc 480  
aactggc 487

<210> 5621  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-G4

<400> 5621  
acggtccana aatccggggt cgacccacgc gtccgncaac gcaaacttca cgacttactt 60  
tactccgacg ttttgggtcaa acccttctct ctccateaca ctatccctca accgccgtgc 120  
tacaccgtgt tacttcaaca ccggagtgat ggatcatgag ttaaagaaat ggcgagaagg 180  
agattacacg aggaagatca tagagtggat ggagttacan aaacggataa gaatctacga 240  
gttaggctct ttaccancgt ttttacttgt ctccgccgga aacatagctc cggtagatca 300  
ccggtggaac caacacggtt taggaggaga taattttaag aggactgtgt ccaagatttg 360  
catccaaggt ccagtgaagt ttgttgcntt ggantgggaa aggggaacca tgggtaangg 420  
tagatganng gccaaactgc ccgcttgann cnccttgggg ttcaaangga ttgtacg 477

<210> 5622  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-G8

<400> 5622  
ttccngggtc gaccacgcg tccgnagatg atgagattac acatgatgaa caagtggcaa 60  
cttgggtctgc tataagtaaa gaaaccaagt cactaatcca tttgaatggt gttgcttcag 120

tcgcatcatc ccatctatct ggcttcagag ccaagaaaag tagtaatggc ctcaaagatc 180  
atggggaggcc aaaattttca tttaactcac atactcatgg agaaacgtca tccaagataa 240  
gtgacatggc tgaaatcttt gagcctgatg tggaggatca ggctatagaa gaggatccaa 300  
ttattgaatg cccaacagt tttgatgaaa gatcagaaaa caggcagggc gtttctgttg 360  
ctgagtcgag agaagttttg cacgagtgc ctaaagatgc ggtaccaag cttcaagaaa 420  
ttcctctaga taaaattaga cctganaaaa agaagctctg aactg 465

<210> 5623  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-H1

<400> 5623

accggtcaga antcccggt ccaccacgc gtccgaacac gcgtccggac gaatccgtcg 60  
gaaaccggaa tcaccatgga ttttcctccg acgaagcttg attatcatgt agacatgttc 120  
aatcttcagt ctcatccag atttcnctcc ttatttaagg cgcaagatgg acgcatagct 180  
ctaatactag aatcaacggc gtttcatcca caaggtggcg gccagccgtc agacaccggc 240  
ttaattgttt tctccggttc ggatttgaaa ttttcggttc aagatgttcg atcgaaagac 300  
ggaattgttc tccattacgg agttttcgaa ggttcgaatc ctgaaagtgg attgatagtg 360  
agaaagggaa agaatttact taactgttga tgaatcaaag gcgtaaactc aattcaagtt 420  
tgcactcaag ctggacactt gctagataat gtgttatgca anaaagttgg gtt 473

<210> 5624  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-H2

<400> 5624

acgcgtccga ncgtttcgtc ctcttcgttt ccttcttcca ttaatacaaa gcaaattccta 60  
ctctgaaagc ttctttattc aacctctcta cttcagtttc tctgtcccca tttttcatct 120



gagagttaaa actgtaacct caaaatctga gataaagtca aaaaaaaaaac cccagttttat 180  
gattctcatt ttctctttat aatcgaaagc ttcgattttt aacaaaaccc agaannnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnga atattgggtg 300  
agaatctgag taatgggatt tacataaaaa gattctatgt aaatactaaa ataatctgga 360  
aattattaaa tttccaaact ttgtgttcca ttttgtggac tcaaatttgt ttaaaaagat 420  
ntcaaataca gagagattga gaanacca 448

<210> 5625  
<211> 451  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-H3

<400> 5625  
acgcgtccgn nngacgcgtg ggtagtaga tcggaaaatg gagccatgga ttgacgaatt 60  
aaccgacgac ttacagagtg taangcttta catcagccgg aaccaccgtg aatcgaagca 120  
caagctccgg ttctcgtctt tctctctccg ccgcagcttt aacaccagca ccatcagctc 180  
acggttcatt ctcatcttcg aaactccctc ctactctccg atcatctctc tcaactctccg 240  
atctcagatt ccgtctccgt ctgggtccg gcgacatcgg ctctgttttc ttagccgaat 300  
tcaaatecct aaccgccgta ananaancca ccgccgtnaa attacctctg ttagcagnga 360  
aagttatgga taanatagga gctcgcgagc agaagcanat anngtananc taagacggag 420  
nagagagaat ctccgaatcc cctgatcatn c 451

<210> 5626  
<211> 427  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-H6

<400> 5626  
cttcttcttc gttgccactg cccaattaa ctctgtctat ctctctcttc atccccatga 60  
ttgaaactaa ttgcaattgg agtgtatatt gcagtatcta gtttttgant ctctgggtat 120

tccttttatgg atccagtaga tatggttgtg tcacagccaa ttacgcctgn tcaggtttcg 180  
 tttctgcttg gagtcattcc tcttatgata gcatggctat actcggaatt tctggagtat 240  
 aggaggtctt cttttcacgc taaagtcat tcangataac aatttggttg aactggaaat 300  
 ggtgacganc aaagangatg anngaacagt tttaatggaa ggaggtcttc caagatctgn 360  
 ctcttcangg tttatacgct cagcgantcc acaatanatt tgattnngtt tctgacnttg 420  
 gaagact 427

<210> 5627  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-012-Q1-E1-H9

<400> 5627  
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 accatgccgt ggttggtcgt ctacaaccag agaaattctc cgccgtacac catggcgacg 120  
 atggcgatgg cttatgatcc caagtccgag gcctggatcg agctcaacac cgcacatct 180  
 ccgctegaac acgtctccgt tgctcgatcc tctcaactcca cgttgctcta cgctttatct 240  
 ccggcgagat tctctttctc aaccgacgcg tttcatctga cttggcaaca cgtggcaccg 300  
 cccganaagt ttggaggatc gatccaatcg tgggctgtaa tcggacggga gnetgantat 360  
 aaccgggang tgtgtgccaa tttccaaggg aggatagant cncctggng ctgttcgna 420  
 tctcaatccg ggagaacggn cctgg 445

<210> 5628  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-A12

<400> 5628  
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acatgtccac cgatcaatcc tccaccgtcg tacttcccga cgtcatgacg gcgccagttc 180  
 gaccagacat cgttaacttc gttcacgccc aaatctccaa caacagccgt cagccatacg 240  
 ccgtatcgaa gaaggccggt caccagacct ccgccgagtc ctggggaacc ggacgtgccg 300  
 tgtctcgat cctctgtgtt cccgggtgtg gtactcacg tgctgggtcaa gctgcgttcg 360  
 gtaacatgtg tcgtgggtgt cgtatgttcg ctccanccac gatctggcgc cgctggcacc 420  
 gtcgtgtcaa tgtcaacatg aagcgtcacg caatccgtct caactatcgn tggaact 477

<210> 5629  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-A5

<400> 5629  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc tatggacgct ataaggaagc agcttgatgt 120  
 gctcatggga gctaaccgaa acggcgacgt tcaggagggtg aatcgcaaact actacgaccg 180  
 tgatgtgtgt cgtctttact tgtctgttct ctgccctcac gatctcttcc aattgacgaa 240  
 aatggatatg ggaccatgcc caaagggtgca ctctttgcag cttcggaaag aataccgaga 300  
 agcaagggca aaagggtgtg ataactacga cagggaattg gaagatgccca tagacaggct 360  
 tatcgttgag tgtgatanga agattggtan ggcccttaag cgtcttcaag aagangacgc 420  
 caaagct 427

<210> 5630  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-A6

<400> 5630  
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 ccgccgctgc tcgtctctc gtcaccatcc aaaccttgga tggatgacatg tccaccgatc 120

aatcctccac cgtcgtactt cccgacgtca tgacggcgcc agttcgacca gacatcgtta 180  
 acttcgttca cgcceaaatc tccaacaaca gccgtcagcc atacgccgta tcgaagaag 240  
 ccggtcacca gacctccgcc gagtcctggg gaaccggacg tgccgtgtct cgtatccctc 300  
 gtgttcccgg tgggtgtact caccgtgctg gtcaagctgc gttcggtaac atgtgtcgtg 360  
 gtggtcgtat gttcgtctca accaagatct ggcgccgctg gcaccgtcgt gtcaatgtca 420  
 acatgaagcg tcaccaatcg tctc 444

<210> 5631  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-A8  
 <400> 5631

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 tgtctttctt ccttcttttc ancgccaccg ccattggctgc caagtccacc gtctccttcc 120  
 gtgacggcga tgttaccaa cggagacttc gagctangac caagtccatc agacatgaaa 180  
 ggaacagaaa tactaaacan actaccaata ccaaactggg aagtcacagg nttcgtcgaa 240  
 tacattaaat cangacatan acaagggtgac atgcttctcg ttgttcccg cggtaaattc 300  
 gtgtaagact tgggaacgaa gcatcgatca aacagnagac ttanagtggg taanggaatg 360  
 tattactcac tcacttttag ngctgctaga acttgtgcac aanacgagga gacttaacat 420  
 atctgtagca cctgacnccg gtgtga 446

<210> 5632  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-013-Q1-E1-B10  
 <400> 5632

acgcgtccgc ggacgcgtgg gttggaggac acagagaagc gcaaattatc agacagagtg 60  
 agaacgaaga agaagaaagc acaggatgct aagcttgaga tattcattac cttatcttct 120  
 tcttcaaaca agggaatcat caactaagct cttcaccaaa aagcctaaca atgttgtggg 180

ttgtgcggcg agaggtccaa gacctcggtc tcctcgtgta tggaaaacaa ggaagaggat 240  
 tggaaactatc tctaaagctg ccaaaatgat tgcttgata aaaggattgt cgaatgttaa 300  
 agaagaagtt tatggagcgc ttgattcctt cattgcttgg gaattagagt tccctcttgt 360  
 tatagttaag aaggcattag ttatacttga agatgaaaaa gaatggaaga agattattca 420  
 ggtgacaaaa tggatgctga gtaaaa 446

<210> 5633  
 <211> 432  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-012-Q1-E1-F7

<400> 5633  
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 gaatncgata ccgaaagacg ctgcgtatca gatcataaaa gatgagctga tgcttgacgg 180  
 taaccaang cttancctag cttcttttgt gactacatgc gatggancca gagtgtgaca 240  
 aactcatcat ggactctatc aatagccaac tacgttgata tggatnagta ccctgtcaca 300  
 actgagctcc atanncgatg tgtagacatn atagctccga ctgttcaatg cgccatncga 360  
 ggaatctgag accgcgggtg gactanggac agttggttct canangccat cntgttatcc 420  
 cgaatggccn tc 432

<210> 5634  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-012-Q1-E1-B4

<400> 5634  
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 ttagagatgc aggcataaag agcgcgactg tttaaagaat acaaagaggt acagcgagag 180

aaagtagcag atcctgatat tcaattgatc tgtgacgata ccaacatatt caaatggacc 240  
 gctcttatca aaggaccttc ggagactcct tacgaaggcg gtgtttttca gcttgctttt 300  
 tctgttctcg aaccttatcc ttgcaacct cctcaagttc gattcttgac caagatattc 360  
 catcctaatag ttcatttcaa gacagggaga aatatgtctc gacattttga agaatgcttg 420  
 gagtcctgct tggacgctca atctgtgtgt agagctatca tagcattgat ngctcatcct 480  
 gagc 484

<210> 5635  
 <211> 450  
 <212> DNA  
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 <223> unsure at all n locations  
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 catgtcttac aagcttcaaa gtttctatct ttagctctta ttttgatcca gttgctgtct 180  
 actcaactct ttgctcaaag atctaaaagt ccatggcaaa cactcactgg agatgctccc 240  
 cttgtcattg ctcggtggtg gttttctggg ttgttgccag attcaagtct cgatgcttac 300  
 agttttgtat cgcagactag tgttcctggt gctgttcttt ggtgtgatgt gcaactaacg 360  
 aaagatgcaa ttggactttg cttccctgat gtgaagatga tgaatgcttc caaatattca 420  
 agatgtttac cctaaaacgg aaaacttctt 450

<210> 5636  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-012-Q1-E1-C3  
 <400> 5636

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 tctcttttta tctcaccgtc tgatcgctta gaagcaacca tgcctcaggg agattacata 120

gatttgcaca ggaagaggaa tggatatcgc ctcgaccact tcgagagaaa gcgcaagaag 180  
gaggcgctg aagttcacia gactccacc atgggtcaaa agtctctagg tatcaagggt 240  
aagatgattg ctaagaaaaa ctatgctgag aaagctctca tgaagaaaac attgaaaatg 300  
catgaagagt catcatcaag gcgtaaggct gatgagaatg ttcaggaagg agctgttcct 360  
gcttatcttc ttgatcgtga agacaccact cgtgccaaang ttcttanacan caccattnaa 420  
caaaannnga aangagaaag ctggcnaatg ggaagttcct cttcnaaagt ccgttcaant 480  
tgctgaaaat ga 492

<210> 5637  
<211> 432  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-C6  
<400> 5637

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tgaagagaga caagaacaga aaccgataca atcgctcatg gacatgccga tacaatacan 120  
agagaagaag caagagattg aagaggagcc taggaattca ggggaaggac catttgtgtt 180  
agattcttct gctaaatggg aaacattcga tcatcatccc gtgacgccat tgagctcgac 240  
tactgcgaaa aataacgcga tcccgcccag gtttaattgg gaattctttg attgagaaaag 300  
ttcacatttt gtgaaacttt ttctttcttt tatcttgtat gcttatataa ttcttgtgtg 360  
gaagtgttgg ttttttttca ggcttcttcn tcttcttcgt caccatcatt atgattcttt 420  
tgatgtacnt at 432

<210> 5638  
<211> 449  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-D3  
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tcagagaacc tcacaatggc cgcataataga gccgacgacg agtacgatta cctcttcaaa 120  
gttgtgttaa ttggagactc cggcggttga aaatccaacc tcctttctcg attcacgcgc 180  
aacgagttca gtctcgaatc taaatccacg atcgggtgtag aattcgccac tcgtagcatc 240  
catgtcgatg ataagatcgt caaagctcag atttgggata ccgctggcca agaaagatat 300  
cgagcaatca caagtgcata ttacagagga gctgtaggag cgttgcttgt gtacgatgtc 360  
acaagacatg tgacgtttga gaacgttgaa agatgggttaa aggagcttcg agatnataca 420  
gatgccaaata tcgtcatcat gttcgttgg 449

<210> 5639  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-D4

<400> 5639

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ttagagaagg caacttcggc tctcagcgaa gccaaagaat ccgttacaag caccgctgaa 120  
tccgtcacgg cttctctcac tgatgctgag aaaaccgtta accaaaccgc caggagcact 180  
ctaactgacg ccgagacaac cgttgcagca tctgttgaaa cgggtcaagac cgaggctgca 240  
gccgcaccag acaaagcgtc tgggtgtgtc acacaggcta aggatgcagt ggacaaagct 300  
ttttctagag gtatagaagg agccaaatct ttgcttcaaa ctttcgaagc gaagagcagc 360  
gatatttccc tcaaagcttg ttggangtgt taacaatcct gtgaagtgga gcatcgagca 420  
ncaaccgtgg caaaaccgag aactttccag tatctacang acaaacaagc ctctgctaan 480  
cgtctggtga aaaagaaccc cgttgt 506

<210> 5640  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-D7

<400> 5640



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catcgacctt gctcaaattc atcaaccatg tcttaacgatt atctcttcaa gtacataatc 120  
atcggagaca caggtgtggg aaaatcgtgt ctgcttctgc aatttactga taagagggtc 180  
caaccagtec acgatctcac cattggtgtt gagttcgggtg ctcggtatggt caccgtcgat 240  
ggacgcnnca tcaaactcca natttgggac accgctggat aananncttt tanatncatc 300  
accanatcat actacagagg agcagccgga gctttactgg tttatgacnt cncnaggaga 360  
gagacgttta atcatntggc aagcnggttg gaggatgctc ggcaacatgc anatecnaac 420  
atgaatatta tgctnattgg gaacaaatgt ga 452

<210> 5641  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-D9  
<400> 5641

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aactgacgg tgtgtgtana cacctttana tacacacnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntacatt attttttgac 180  
agcaattctt agtttctctt ctatcccctt tctgggtttt gtttgaaccc tacctcgctt 240  
tggatccagt ggttttaagt taaaggtaaa nttatcgaca gtaagtatat tcctaattggc 300  
nggttccaat cnttcatctg ntaaacctgn angagtnta agtgatnctt tatgtactgg 360  
agctctggca tgcngtgct ggaccnctg tcnccctaac tcctgaagg ggaacncagt 420  
ttaatncttc ccggggaang ggcaca 446

<210> 5642  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-E4  
<400> 5642

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attgcgagtc cgattccggt ggcgctgtat ccgactttat cgggtgttcac tcttgcgatt 120  
gggtctcgtca ttaccgctat cttcttcac tctgaagcta catcatccag gaaaaaccga 180  
agcgtcggaa aggagctcgc tacttcagca gttgcatctg tcttcttggg ttttggatcg 240  
ttgtttttgc tacttgctag tgggtgtttat gtctgatcct tcttcctcaa tactattccc 300  
aactagttca aagacaanga aaacagatth atcnttggtc aagttacaat caggagtatt 360  
gaatgttaaa gacttgagga agtagccttt aaacnccaag ttacaattaa attatcttcn 420  
tcttttaacg ctaaaccgaa ttttgggttc aa 452

<210> 5643  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-E6  
<400> 5643

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tattggtagc ttccgtcttg atggtattcc acctgcacca cgtggagttc cacaaatcga 120  
gggtcaaattc gacattgatg ccaatggaat tctatctgtc agtgcttcgg acaaaggtag 180  
aggaaagaag caggacatca ccattactgg tgctagtacc ttaccaaagg atgaggtaca 240  
cacaatggtg caagaagcag agaggtttgc aaaggaagac aananaaga gagatgcgat 300  
tgacacanna gaaccanggc tgactccgtc gtttaccaga caganaagca gcttanagan 360  
cttgagagaag acaattccag gtccangtga aanacnangt tnangctaag ctcccaggac 420  
tgaagggaga nga 433

<210> 5644  
<211> 412  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-E8  
<400> 5644

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aacggagtta ccaactgtaa cgcaaagcc aatgtttggc ggttcaaagg aaacggtgca 120  
acgagtgatg cggcggcggt gacgttgaga aagcttgctt ttgggatggt taaaaactgc 180  
accatgaaca gtggaaagac cattttgttc ccaactcccg gcgagccctc cgccattcc 240  
aacttcagga cttgcccga agccgaggaa gccgttgccg cagctgcacg ctccggcatg 300  
gctaactctt acgcaccag ccctggagt ttcaaggcta agaagggcg tggtgaana 360  
tttaaacgga gaattccgac caagcctgan ngccgangat gtgtatatca cc 412

<210> 5645  
<211> 493  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-F10  
<400> 5645

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gccacgcgt ccgaaaagag aatctctcag aaggtgagcc tccaacaata gcgtgaatct 120  
ctctttctct ctctatctct ctatctccga gatcgcatca ccggaaatcn ccttctacgg 180  
tggtgggtggt gacagttgac cagagatggc ggccggagaat gagagaaaat ctcccttcagc 240  
agtctccgat atgggagctt gggcaatgaa tgtgataagc tccgttgga tcatcatgng 300  
cgaataaaca acttatgtcc tcttctggga ttgcattta gtttcgctac aactctcaac 360  
ggtttccact tcgctttaac cgcattggc ggtatggtat caaacgctac cggattctct 420  
gcttcaagc atgtacctat gtngggagct tanttgggct tccattgtcn gcnaatgtcc 480  
gctaagtgct ggc 493

<210> 5646  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-F2  
<400> 5646

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 ttcccttttc atccttttga aatttctcgt ctttcttctt cgaaattgga aactcacagc 120  
 agcacctgaa aaataacatc anaagcttca agatccaatt tgggtcgttc tgtgttttct 180  
 tctgatgggt ctgcgcgaaa tgtagaacaa gtttggagat gttgacaatg gacaaggaat 240  
 ttgattcaaa gcttactctt caagggaatt catcttcaaa tggtgaaact atttccagaa 300  
 gcaaaagctt cgcctttaag gctctcang agaatttcac ttaccatgat ttcgagctcg 360  
 gcaagatcta agggcggttg ctcttaatcc aaagggtggt anggcgaaga agaaggataa 420  
 tgggaactgt gtangccttg aagatnaatg gacaaaaagt ttatcaccaa ggn 473

<210> 5647  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-012-Q1-E1-B3  
 <400> 5647

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 ccgttctttg cgggtggttac tttcgcggtt ctggtgcaag gaatgtttat gaggaagctt 120  
 tcaacgggaa ctactgggt ctggtctggt gatgaagcat tggagctctt ggaatacttt 180  
 gctattgctg tgacaatcgt tgtggttgcg gttcctgaag gattgccttt agctgtgact 240  
 ctaagtcttg cgtttgccat gaagaaaatg atgaacgata aagctcttgt gaggcattta 300  
 gcagcatgtg agactatggg atctgcaacg acgatttgca gtgacaagac tggtaacttc 360  
 acaaccaatc acatgaccgt tgtgaagtcc tgcatttgca tgaatgtgca agatgttacc 420  
 aataaaaggt ccanccttgc aatccagaaa tcccggaatc ctcngtgaaa tttttttgat 480  
 caan 484

<210> 5648  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-C3

<400> 5648

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tgacacattg aaggaaattg gtgcttcttc gaagtcaaac tcgggtgttca taccgcacgg 120  
tccaggcgct gttagggaca ttgcttcaca gatcagggat ggtcttcttc agggtaactc 180  
tgctgctgag tagagaaatg tctcaaagta caaaaaggct ttttcagagt tttagagttg 240  
tgttactact tgctactcag tttatctttt agcggttggc tctatatggg ttcttaaatt 300  
tcttatcggt tctctcttct aggcttgtgg acttgatcca ttttcttgtt ttatggggtt 360  
gtggatagag tttgggcttg aaaaatattg tgttatttgg gttttaatgt cgttaactcg 420  
ttattaatgt taaacagtgg ttaaagaatt gttaacgaga aaaaa 465

<210> 5649

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-C5

<400> 5649

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gagaagtcgt acccgaacgt tcggatccgg gttcgggtct actccggcga tgtctcttcc 120  
acgtctacgc ttccgattcg tataacttaa cagttcatgt cactgacttc atctccggtg 180  
tctggacgac gatcctctcc gtctcgcagc tagacgatat gagggatact gttgggattg 240  
gtggttcgtg gtctgagttc gtcgattata ctgttgcttc cttgaaatcc gacaatgtga 300  
agcttctctt gggagaaact tcagtttcaa atggtgtcaa aactgcgcga ttagtttctc 360  
agaaagccaa aggaatgcct cgcataaatg ttcccttaac aaaagatggt ggaatcatct 420  
gctagtgaag caatggcaaa tctgtctctc gagtt 455

<210> 5650

<211> 495

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-C6

<400> 5650

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tctccattaa caaggagaaa cagagcacca ccatcctctg tttcctctgt ttatctaata 120

tttctctggt ttttctctta ctttttaaat ttctcaaagc ctcaatcctc gccggttttc 180

gcctgcgacg tagctgcaaa cccttctctc gccgcctatg gtttctgcaa caccgttttg 240

aagatcgaat accgagtcgc tgatctgggc gcgaggtcca cgttgcaaga aaagatcggg 300

tttttagtga gtaaagctaa cggcgtgact cgtcttgga ttccaacgta tgaatgggtg 360

tctgaagcac ttcaaggggt ttcttacatc ggacccggga acgcatnttt tctagccaaa 420

gtttccccggg agctaacgaa gttttccgc aagggnata actccaacgg ccggcttcgt 480

ttnaaacgta tcctc 495

<210> 5651

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-010-Q1-E2-C7

<400> 5651

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aaaggatgcg taatgtggag acctatgtca agtctatcaa gcccgagctg gttgtacaag 120

ccgaacccat tacagatcca tatggccctt ctatcgtaga tgaaaatttg gaagctattg 180

ttgtcagcaa agagacatta cctggtggct tgtcagttaa cagaaaaaga gcagaaagag 240

gtctttcaca gcttaagatt gaagttgtgg aaatagtttc tgatggatcg agtggaaata 300

agataagttc aagtactctg agaaaaatgg aggtgagaa agcgtctaaa caaaaacaac 360

cagcagaaga aaaagcatca tgaactcctc atatataaac tctcaacttt gcatgtaatt 420

taatactctt ttgtatactc aaaatgctgt aaatt 455

<210> 5652

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-C9

<400> 5652

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cataattaaa gatctctatc aagagagaga tcttttattg tcttcttctg ttaaaatctt 120  
ttgatagatc ttcactctct gaaagtcaag atcttagtct aggcaagtaa atatgtggta 180  
aagcaaagcc cttcttgaaa ttggtcatat atggctgggtg gtatcggaaa atggcaggat 240  
ttttctcggt aggacacggc ggaggaggaa acactccaga caaccacaga acaaacta 300  
ataatccttc ttcacgga acagaatctt ggctttgggtg cagaaaccct aactctaacy 360  
ctgacggtgg agaagctggc cttcttaca aaggaaccct tgagctatgg caacanccaa 420  
acaatcaaga aatcantttc cagcagcagc aagcaaca 458

<210> 5653

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-D1

<400> 5653

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aaaacacaca aatctaagag aagttatgaa taaacaagat gttatgaaac ttcagacttg 120  
tgttctgaaa gtgaacgtac actgtgaagg gtgtaagcat aaagtgaaga aacaattgca 180  
gaaaatcgaa ggtgtttact ctgtaaaagc agatgtagaa caggggagag ttactgttac 240  
agggaacatt gaccagctc ttctgggtta gaaacttagc aaatcaggca aacatgccga 300  
gatcttnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnttct ctaatctgaa 360  
tgggcaattt tgcaaattcc aacatgggtg gnaacaataa gcctaaaagg gtgggaaaag 420  
agaattaacc aagtcaangg gtaaagctgg ttggttgcc gttggaag 468

<210> 5654

<211> 504

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-D10

<400> 5654

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cgcatttgcc ctgagcgaaa gagagagaat gtatttgacg agttccagga gaaatcagag 120  
ctagagaaat ctggtaatgg ggagagaact tgtagacaaa cacatggata agaaagcgaa 180  
tagtttgaca gctagctcga cgggatcttc agatgataat aaagtcccaa gtccgtctac 240  
taatgaagct gcagaggtga aagaatgcac cgagcagaat ttgggtgcgg atgatgctcg 300  
tttgaggcaa caagggataa ctgagacacc tggatcccat aaatcttctg ttaaacctcg 360  
tgttactgcy aaaacaactg ttccaaagcc gttttccctg tcggctgaaa agcctagaag 420  
aacagcgggt gataataant cattaggaaa ttggtgctaa ccataactcc tcctcagcat 480  
caagagttca cagctaaacc ccct 504

<210> 5655

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-D12

<400> 5655

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ctaactgcag agacgaatct gcgaaaattc caacaccaga ttccggcgcc ggagcgccga 180  
tgaacaatca ggtcgttttag taaaattcga tgaatctccc gcggaaataa ttagattcga 240  
tttcgatttc cgtggggaag ttttgtgcca tttgatttgt tttcgttcgt ccccgttgga 300  
gattttttgt aatttctggg gacagaaaca atgtctaagg tagtgtacga aggatggatg 360  
gttangtatg gaaggaggaa gatcggacga tcgtatattc atatgaagta atttgtgttg 420  
gagcctctcn tttggcgtaa tacaagaaga aacctcag 458

<210> 5656

<211> 453

<212> DNA

<213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-D5

<400> 5656

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caagtttcgt catctgggtc ttgtaaagtt ttagactttt agggttgttt tacttgtgaa 180  
gtttctctct tttctaattg attctctggg taattgatcg attagggttt aagatttttag 240  
cgggtggggaa agctgttttg ttctagaatt ctatcttgat taacgtcact tgcagctttc 300  
tcacaggttt tggaattgta ctaggttttg attgataatc atagattggg agtgatttgg 360  
gagtnnccct gattgtgtaa tcatggcgga ggctaantgg tgctgtanc nttggtgggt 420  
catcgacctt caattgtgaa ggattacagt gaa 453

<210> 5657  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-E1

<400> 5657

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accggaaact cttttaactc gatgaaagat ttctgaagc agacaggcgg ctatgcggta 180  
atagacggag ggcttgcaac ggagttcgag agacatggag cagatctcaa cgatcctctc 240  
tgagagccca aatgccttgt cacctctcct cacctcattc acaccgtgca tctcgattac 300  
cttgaagctg gtgctgatat catctccagc gcttcttatt aggccacgat tcaggggttt 360  
gaagcaaagg gatcttctag agaagagagc gaatctttgc ttaaaaagag cgtaaaatag 420  
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taagantctc aaaaagcgc 499

<210> 5658  
<211> 451

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-E2  
  
 <400> 5658  
  
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 atgtcgcgaa tgtcgactgt tcgtataaca tgactcctga ggagctcaac attaagatct 120  
 cgctctgtga cgccttgatc gtgaggagtg ggactaaggt tggccgtgag gtgttcgaat 180  
 cgtctcacgg acggctcaag gttgttggtc gcgctggtgt tgggatcgac aacgtggatc 240  
 tgagtgcagc gacggagttt ggggtgttgg ttgtcaacgc tccgacggcg aacacgatcg 300  
 ctgccgctga gcacggaatc gctcttatgg ccgccatggc tangaacgta actcaagctg 360  
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 aaagaccctg cattgttggg aatcgggaaa g 451

<210> 5659  
 <211> 496  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-E3  
  
 <400> 5659  
  
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 ggcttctact tcttccctcg ctctctctca agctctccta gctcgtgcaa tctctcacca 120  
 tggttctgac caacgtggat ctttaccagc tttctctgga ctcaaatacca ccggttcacg 180  
 cgcctcagct tcgtctcgtc gacgtatcgc tcaatccatg accaaaaacc gatctctccg 240  
 tcctcttggt cgcgctgcag ctgttgagac tgttgagcca accactgatt cgtcgattgt 300  
 ggacaaatcg gtcaactcga ttaggttttt ggctatcgat gcggtggaga aggccaaatc 360  
 aggtcatcct ggtcttctta tgggttggtc tccgatggct cacattttgt atgatgaggt 420  
 catgaggtat aacccaaga aaccttaatg gttcaaccgt gaacgattcg ttccaatctg 480  
 ctggacatgg gatgta 496

<210> 5660  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-E4

<400> 5660

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taaactatcc cttttatttt cccaccaac tcaannnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnggggatg ctttctactc 180
tctgtttggt ttccttcatt gtgactttct attttctggg ttgttttcaa gtcattgatt 240
ttccgatacc cttttgattt ttcttgctat ttctcacctc tgtataagca agctctctgc 300
tgtttctcct catccaagtt gggtttatca gttcagctgt gtagaaattc aatcgtctga 360
gaagtcgag gtttgatgtc tgatggtttt aagatcgaaa ngatttgact ttaacanatt 420
agtaatngag aataagaatt ggtttttgag ggtaaatggt atcana 466
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<210> 5661  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-C12

<400> 5661

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acgcgtccgc aancecattt cccattgag acttttgttg acctaatcc tccaaaatct 60
caccttcaca ttgctcgatt tcagtcctct gaaaaaatct ccctgctttg ctatggctct 120
gaggtgtttt cccatttggg ttgttccca aacgactcat catcgttctc ctctcatggg 180
tctcgctgaa ttcgacgctg ataaacgccg tcgtttctgt ctctgggagt gctcttcttc 240
agcttctcag agagctgtca ctgccattga aggcgagatt ccttttagcc gcgagctcaa 300
aaagtcctct gatgaattgg gtttgactca ggagactcaa tctctttctt ttcacagaga 360
cttaagtatg cttcctaaac cgctaactgc aaacagtctt tactcttctg atggcgatga 420
ttcaaaagtg cgaatttcgt ttcaggggat acaagntg 458
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<210> 5662  
 <211> 457  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-A11

<400> 5662

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ttgggtcaga gcaccttttg cttgggtctac ttcgtgaagg ggaggggtgtg gcagctcgtg 120
tcttgagaaa tttgggtgca gatacctagta atatacggac acagggttata cgtatgggtcg 180
gggaaaacaa tgaagtcaca gcaagcgttg gtgggggaag cagcggaaac agcaaaatgc 240
caacacttga agagtatggg actaacttaa ctaaactagc agaggagggg aaactggatc 300
cggttgttgg aaggcagcca cagatcgaac gagggttcca gatcttggct cgaagaacca 360
agaacaaccc atgtcttatt ggagaacctg gagggtgtaa gacggcaata gcagaaggac 420
ttgcacancg aatanctant ggtgatgttc ctgaaac 457
```

<210> 5663  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-A12

<400> 5663

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cagcaataac ttcgtcggac gtcaaactatg gaagtttgat cacaaagccg gctcaccgga 120
ggaacgagct gccgtcgaag aagctcgccg gggtttcttg gataaccgtt ttcgtgttaa 180
aggttgcagt gatctattgt ggcgaaatgca atttctaaga gagaagaaat tcgaacaagg 240
cataccacaa ctaaaagcta ctaacataga agaaataacg tatgaaacaa cgacaaatgc 300
attacgaaga ggcgttcgtt acttcacggc tttgcaagcc tccgacggnc attggccggg 360
aaaaaatcac cgttccgcct ttcctcctcc tcctctcata tttgttgtca ttaccggaca 420
tctggaggaa ntatcca 437
```

<210> 5664  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-A3

<400> 5664

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tggncgtccg gagattccaa aggtcgaccc acgcgtccgc aaaatgctca cgacacctcc 60
acgaacnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnncaatcga actctgtata caactctttc ctcaagtgtt tctccgacaa 180
gacgaaatct ccacaatccc aaatcactga caatgtcttc tctcagacaa accctgcttt 240
ctcctccggt cttcgtgctt acatccgcaa tgcgagggtc aacacttctt ctactcttaa 300
accaccatc ataatcactc ctgctccga gagccacgtc agcgccgccc tcaattgctc 360
aaaaacccta aatttctctc tcaaaatccg aagcggcggg catgactacg atggtctctc 420
ttacatttcc gacaaaccat ttttcactct cgacatgtcg aatatccgtg acgtctccgt 480
agatatcg 488
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<210> 5665  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-A6

<400> 5665

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gtttctctcc accccttcga gatttggtgc gatgatgttg cgtgctgttt ttaggagagc 120
ttccattaga ggctcttctt ctgcttcggg attgggaaaa tcattgcaat cctctcgtgt 180
tgagtggtct gctcaatttc attctgtttc agcaacagag acgttggtgc ctcgtggaaa 240
ccatgctcat agcttccatc accgttcttg tccagggtgt ccagactgtt caaggactat 300
tatcaacggt taccaaggca cagccctgca aagatgggtc aggccttttc atctgatagt 360
gggggatgtc gtggaagctg ttgtgccaca catgggtgaa tcaatcactg atggcaccct 420
agccgccttc tgaagaaacc tggcgata 448
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<210> 5666  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-A7

<400> 5666

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ccgtancgaa tccggaaatt cgcgggtcga cccacgcgtc cgcggacgcg tgggaaatca 60
ctcgagaatt cgctatttta tcaccaatct tcttgaatcc tctcatccaa tctgtctgatt 120
ctcatctttc tccgttactt gtggatctta cgcaatgtat agagtttttg cgagccgagc 180
actgagagct aagtctctct gtgacaaatc atccacctcg cttgcttctt tgactctctc 240
cagattgaat cattccatac cttttgctac cgtagatgcc gaggagctct ctggtgctca 300
tcctgctgaa gtacagagct ttgtgcaggg aaagtggata ggatcgtcaa atcataacac 360
gcttctagat cctctaaatg gagaaccgtt tatcaaagtt gcgggaagtg gatgaatcag 420
gaactcagcc atttgtggga caagcttatt ccaagtgtcc gaaaacatgg tctccataaa 480
ccctttcaaa t 491
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<210> 5667  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-A8

<400> 5667

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ttctccggtt tactttcggg taagacagcg ttagcagcac gacatgtgat cggcgggagc 120
caaggctggg aacaatccgt tgattttgat tcttggctct ctgatcaatc tttcaaagtc 180
ggcgacaaa tcgtttttta gtattcagaa ctacacagcg ttgtggagct aggaagtga 240
acagcataca agagttgtga cctgggaaca tcagttaatt ccttaagctc tggaaacgac 300
gtcgttaagc tttctaaaac cgggtactcg ttacttcgct tgtggaaccg ttgggcattt 360
gcgaacaagg catgaagaat taaagtccaa cgttgctcnc ttctgactcc aaaatcggct 420
```

tctctccctt aaggttcaag gttcnggggtt ccggattcaa g

461

<210> 5668  
<211> 458  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-B12

<400> 5668

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cagagaaaac acaccattga tccttcttct cctgattttc aaccaattcc atcttttgaa 120  
gaatgctttc ctaagagcac taaagaacac aaggaagttg tccatgaaga atctggcat 180  
gttcttaaag ttccctttcg tcgtgttcat ttgtctgggtg gtgagccagc ttttgataat 240  
tatgacacta gtggctctca aaatgttaat gcacacattg ggcttgctaa gctaaggaag 300  
gagtggattg atcgtcggga gaagctagga acaccaagat aactcaaact gtactacgct 360  
aagcaaggga tcataactga ngaaatgctc tactgtgcta ctanggagaa gctagacctg 420  
agtttgtaag atnagaantt gcacgaggac gggcgaat 458

<210> 5669  
<211> 500  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-B2

<400> 5669

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tctctctggg tttaggggtc cggtaatctt gcgacgacac cgagcgattc gtgcctccct 120  
ccccctcctt tgacttcggg tctaacttga ttaccagtga gaagtaggct aagatggaaa 180  
tcatgtcaag agagaatgag actgctttgt caggtcctag gccgatggaa tgggtctaccg 240  
tcccacacag tgcttctcaa ggacctggtc ccaatggcaa gaaccggacc tcgagcttgg 300  
aagcacctat catgttgcta agtggacatc cgagtgtgtg ctataccatg aagttcaatc 360  
ctgctggaac tctgattgca tctggattcc atgacagaga aatcttctc cgggagagtt 420

cacggggact gcaaaaactc atggttttga aaagncacaa gaacgccatc ctttgatctc 480  
aattggacaa gtgatggctc 500

<210> 5670  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-B4  
  
<400> 5670

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aaaacctatt tcaaatgtcg atgatgcgaa gtttcgatct caggaagaag aagatcagtc 120  
cagttacgat cagaaaacag tatgcgaagc tctcacatgt tacagcaacg attggcaaaa 180  
ggcgttggag tttttcaact gggtcgagag agaatccgga ttcagacata ccaccgagac 240  
attcaatcgg gtgatcgata ttctgggtaa gtatttcgag tttgaaatct cttggggcttt 300  
gattaaccgc atgatcggaa acacggaatc tgtgccgaat cacgtcacgt ttcgtataat 360  
ccttaagcgt tatgtgacgg ctcatcctgt tcangaggct attgatgcgt atgataaatt 420  
gggtgaattc aatttgagaa gatgaacatc attt 454

<210> 5671  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-B5  
  
<400> 5671

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tgcattccct cttcttcgtt tagccacaga actaatgatt ccataacctc atcatcttct 120  
tcatattcat cattgcttgc ttgacctcaa ttcttctgtc caccatctcc attaggattc 180  
ccacagttca agcttcacgc caagttaggt ggaggagatg gagaagtga gacctaaagat 240  
aagaagaagt tcattaccaa agatgaagaa ccagaacagt attggcaaag cgttggagaa 300  
agagaaggag agaatccgat gaagacgcct cttccttaca ttatcatctt cggtatgtca 360



acgccattcg tcattcttagc cattgctttt gccaatgggt ggatcaaagt tcccattcgt 420  
tgatagcctt tcttttttgc ttctgctaca cttgtgtaag gctgatctta aacatgt 477

<210> 5672  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-B8

<400> 5672

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gctcactcat tctatctccc aggtgttgct cctcaggatt tcgagaaggg tgatgagctg 180  
aaggtgaaag tgaataaatt aacttcata aagactcagc ttccatactc gtattactcc 240  
cttccttttt gtcgccctag caagattgtg gacagtactg agaatcttgg agaagtgctt 300  
cggggtgacc ggattgagaa tgccccatac tcgtttaaaa tgccgggaggc acaaattgtgc 360  
aatantctcg gccggggtca ctcttgatg ccaagacagc taaagcgttt aaagaaaaga 420  
tcgatgataa gtacnggtca acatgattct cg 452

<210> 5673  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-B9

<400> 5673

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tcttttctag gtttcataaa aacagtttgg atcttaagct cacagctgaa aataaccgga 180  
ctttgattac tgggtatata aaagccgcca ttgttggtt tttcactctt tgggttatta 240  
gggtttacga tttctgggtg gtagataaat ttgttcttca aaaaagtttc cttttttaaa 300  
aaatctctta gattcttaaa gaattgtaat ttagggtttt aaatgcatgg atgggagaga 360

agctatggca tttccaggcc cgcattctca gttctatctt cagagaggag tttttaccaa 420  
tcttacacct tcccangtcg cgagtgggtct cac 453

<210> 5674  
<211> 458  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 5674

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atacggctac gtcgtagat cagtgggctg tgattctaac cggcaagttt tgacggcgaa 180  
gcttgatctg ataaaacat cgtccgttta cgcaccagat attaaatcgc ttaatcttca 240  
tgtcagcttg gagacaagtg agcgtttgag aatcagaatc acagactcta gtcaacaaag 300  
atgggagata ccggaaccg ttattcctcg tgccggaaac cactctctc gccgtttctc 360  
aacggaggaa gacggaggaa actctcccgg agaacaattt cctaacagat cctcatcgga 420  
cttggtttca ctctccaaaa cagcagccg ttttggtt 458

<210> 5675  
<211> 464  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-A1  
  
<400> 5675

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agtaaaagcc ctaactttac ttgggaaagt tcttcatcta tcatccttca atcgatcatca 180  
tccatggctg atcaacaaac cctagattcc tctactctc ctctactca atccgatgat 240  
ctatctcact cccactctac ttctctact acttcagctt cttcttctc agatccatca 300  
ctcttgaggt ctctctcctt aagtcgactc aacgccggag ctctgaggt cgttctcgtt 360

cgaactactc ctccgctgcc tcaanctccc gaaggatgat tatcccgccct cctccggcgg 420  
 caagggtatg cttcataagg tatcaacaac aagctccctt taaa 464

<210> 5676  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E1-D1

<400> 5676

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 aaaacacaca aatctaagag aagttatgaa taaacaagat gttatgaaac ttcagacttg 120  
 tgttctgaaa gtgaacgtac actgtgaagg gtgtaagcat aaagtgaaga aacaattgca 180  
 gaaaatcgaa ggtgtttact ctgtaaaagc agatgtagaa caggggagag ttactgttac 240  
 agggaacatt gaccagctc ttctgggtta gaaacttagc aaatcaggca aacatgccga 300  
 gatcttnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttc ctaatctgaa 360  
 tgggcaattt gcaaactctca acatgggtgg aaacaataag cctaaagggtg gaaaagagaa 420  
 taaccaagtc aaaggtaaaa ctggngg 447

<210> 5677  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E1-D5

<400> 5677

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 gaaaattccc tctctttctt ttcgatttga tctgggtttc attgtacata gctcgatctt 120  
 caagtttcgt catctgggtc ttgtaaagtt ttagactttt agggttgttt tacttgtgaa 180  
 gtttctctct tttctaattg attctctggg taattgatcg attagggttt aagattttag 240  
 cgggtggggaa agctgtttgg ttctagaatt ctatcttgat taacgtcact tgcagctttc 300  
 tcacaggttt tggaattgta ctaggttttg attgataatc atagattggg agtgatttgg 360

gagttttcttg attgtgtaat catggcggag gctattgggtg ctgtatcttt ggtgggtcat 420  
cgaccttcaa ntgtg 435

<210> 5678  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-D8  
  
<400> 5678

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tgctctgaat cgattggaaa atcaaaccgg tgtggactct gcaaagttgg ttgatatgaa 180  
cagtcttgtg agaagaaaac aagttgattc tgttcatctt atcaaaaacg atggacctca 240  
tcagcttgcc aagaaactat ccgccgttga tcntgttget attggagttg ggacaanaat 300  
tggagcagga gtgtatantc ttgtgggaac ggtagctana gagcacacag gacctgctct 360  
tgctgtagca ttctcattg ctggagtanc tgcggctctc tctgctgtt gntatgctg 419

<210> 5679  
<211> 449  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-E1  
  
<400> 5679

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ccgaggcgac atacaagatg accggaaact cttttaactc gatgaaagat ttcttgaagc 120  
agacaggcgg ctatgcggta atagacggag ggcttgcaac ggagttcgag agacatggag 180  
cagatctcaa cgatcctctc tggagcgcca aatgccttgt cacctctcct cacctcattc 240  
acaccgtgca tctcgattac cttgaagctg gtgctgatat catctccagc gcttcttata 300  
aggccacgat tcaggggttt gaagcaaagg gattttctag agaagagagc gaatctttgc 360  
ttaaaaagag cgtagaaata gcgactgaag ctcggaactc gtattatgac aaatgcggaa 420

ctaactcctc caaggatgaa aaaaatcnc

449

<210> 5680  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-E2  
  
<400> 5680

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atgtcgcgaa tgctgactgt tcgtataaca tgactcctga ggagctcaac attaagatct 120  
cgctctgtga cgccttgatc gtgaggagtg ggactaaggt tggccgtgag gtgttcgaat 180  
cgtctcacgg acggctcaag gttgttggtc gcgctggtgt tgggatcgac aacgtggatc 240  
tgagtgcagc gacggagttt ggggtgttgg ttgtcaacgc tccgacggcg aacacgatcg 300  
ctgccgctga gcacggaatc gctcttatgg ccgccatggc taagaacgta gctcaagctg 360  
atgcgtctgt taaggctgga gagtggaaga ggaacaagta tgtangtgtt cacttgtggg 420  
aaagaccctt gcagtgttgg g 441

<210> 5681  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-E3  
  
<400> 5681

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actcaaatcc accggttcac gcgcctcagc ttctgtctgt cgacgtatcg ctcaatccat 180  
gacaaaaaac cgatctctcc gtcctcttgt tcgcgctgca gctgttgaga ctgttgagcc 240  
aaccactgat tcgtcgattg tggacaaatc ggtcaactcg attaggtttt tggctatcga 300  
tgcggtggag aaggccaaat caggatcatc tgggtcttcc tatgggttgt gctccgatgg 360  
ctcacatttt gtatgatgag gtcatgangt ataaccctaa gaaaccctta atgggtnaaa 420

cgtgaacgaa tccntcca

438

<210> 5682  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-E5  
  
<400> 5682

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agttcacttg tggtccattt actgatgaat atgtggcctt aaggaaatat catgtagagg 180  
catacttagg tcaaagccct acacaggtgc caaagtattg gcttgtgttt tcagtaactg 240  
tgctcctctt tggttccact acttacacta tctccactgc taagaaaaca gatggatatt 300  
ctagcaaata atacgtctcc aatataccta aaggcgaaca gtcaataatt aacattgggc 360  
atgggcatct gaagcttagt ttttccactg atcaaggac agcaatcaat tatgttaacg 420  
gcagaacctc gatgacaaga ancaatc 447

<210> 5683  
<211> 444  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-E7  
  
<400> 5683

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tattcaaaag ttgtttgctt tcatcgctt tggtgttcat cttcatctgg tttgagatta 180  
taataacatg gaaggaatca ttgtgagaag agttatacca tctgataaca gttgtctctt 240  
caatgcaatc ggttatgtca tggacaagga caaaaacaaa gctcctgagc tcagacaggt 300  
gatagcagca gcagttgcaa gcaacaagga gaaatataat gaagcatttc tagggaagct 360  
caatgaagaa tattgtgctt ggattctcaa tccagacaag tggggangtg cgattgagct 420

ttcgatatta acanattaat aagg

444

<210> 5684  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB23-010-Q1-E1-F1  
  
<400> 5684

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cctccgcctc tcccaccagc gtcgcccgcg ctaatcttct cccgaacgtt cctttcgctt 180  
ccttctcccg ttccgataag ctcgcccggt tagctgattg gactcgcaat ctctctaate 240  
catccgctcg tctaacacc ggatccaaat cagatccgtc tgcagttttc gattttctccg 300  
ctttcgcaat cgacgaaggc ttcgggtctcg ctctctccgg tggtaatccc gacgaagacg 360  
cagctttccg tctcgtegac ggtaaacctc cgccgcgtcc taaattcgga cctaaatggc 420  
gtttcaatcc tcaacaaaat cgggat 446

<210> 5685  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-F3  
  
<400> 5685

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aacaaattgc attcccgggt acgtttatgg gaattccccg atcagtacat catcgagcca 180  
gctgatggct caggctcttc atgtttggat attagtcgtg ttgatgcttc catgaagctc 240  
atcgatcaag tcccagaaag caattccgtg cgtgtcccta aaatccgttc catttttggt 300  
gtggttggga tgttgaagct ccttgcagga tcatacttgg tggttgtaac tgagagtga 360  
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ctgtgatnaa tcactaaaaa acc

443

<210> 5686  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 5686

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atttctattht gcatctctaa cctgagagct gctaatagtc cacacaactt tttagtttgt 180  
gagttttcct aatttaggggt taggacaaat ttctgtattht ttcaccaag gggataaaga 240  
tgtatgctga taaattggag gctgagtctg gaagcaggaa ggctgttaag gatcgtatca 300  
atggcggttc tggagacatc tctactcgcg tgcgacaagt gactgggaag aggcaaaggc 360  
aggacgacaa atgggagcat gatcttttca gtagtgacaa acctcaactt tcaaactnca 420  
aggttgattc taaaantctc 440

<210> 5687  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-G7  
  
<400> 5687

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aatcgttgat catggaacga atgggagata aagacatcgt tagacgtgca ttttaagagtt 180  
ttcagaagag tttcgaccaa atgaaatcta ctgatgatgg gcaagatata gctccaaagc 240  
aggttcttgc aaaggcaact gctgttcaga ggtaggtac aactggtcag aaaaatgtca 300  
ggcttgcaaa atcagatggc acggagagaa aagtcctaa ctctcacctg tcttcatctg 360  
ttgtatcaaa aagcaacggg acagccgaga aacagaangn accttcctaa gctttggaca 420



agaacttttg agaaggatac nat

443

<210> 5688  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-H4  
  
<400> 5688

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aatgtagtgt gaagaagaaa ccctagtttt ttctcacttg aattctctgc cttcttttagt 180  
aatgtcaagt gagcagcgag aaggttcgca agagacgacg acgacgacgg tggaaggtaa 240  
cggaacaatt gcaggtcaga attctcattc ggcggtcccc acgacattga gagctacctc 300  
tacgatggtt tcttgccaga gactaaggct aaaccctaac aacgagcata gacccgatag 360  
ttatgaagat ctgcagcttg atttcccaaa ctcggtatat tctagtctgg agaaagtact 420  
tgctccgaa tatgntcgt 439

<210> 5689  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-H8  
  
<400> 5689

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ttttccac ggtagaggca aagaagcggg gtagagatgc tcctanantg aaaggtctct 180  
catggaactt ttaccagaaa gcatgtccga aagtcgaaaa catcatcaga aaagagctca 240  
agaaagtctt cangcgagat attggtttag ccgctgccat ccttcgtata catttccatg 300  
attgcttcgt tcanggatgt gaagcatcag tgctgctagc tggatcagcc agtggaccan 360  
ggagaacaat catcaatccc aaatctgaca ctacgacaac aagcctttgt cgtcattaan 420

aaccttcg

428

<210> 5690  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-C7

<400> 5690

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ccgaacccat tacagatcca tatggccctt ctatcgtaga tgaaaatttg gaagctattg 180  
ttgtcagcaa agagacatta cctggtggct tgtcagttaa cagaaaaaga gcagaaagag 240  
gtctttcaca gcttaagatt gaagttgttg aaatagtttc tgatggatcg agtggaaata 300  
agataagttc aagtactctg agaaaaatgg aggctgagaa agcgtctaaa caaaaacaac 360  
cagcagaaga aaaagcatca tgaactcatc atatataaac tctcaacttt gcatgtaatt 420  
taataccctt tgtnaaccaa aaaggccg 448

<210> 5691  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-H11

<400> 5691

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atcgttacaa tgcaagtcca aagctttcga tgatgtttac nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnatct catgtcaagc tacagttgca gaaaaagcac 240  
acagagtcta aaagatgtga tcgaaaccaa aaaacccaaa cctaaaccga agaaacccaa 300  
tccaaaaccg gataaacgag aaaccgaccc ggttttatca ccatcaaccc ggatccgac 360  
aaccggagtt cgtgatcgtg atccgttttt accgacattg acggagctat cggaaggnc 420

tcaatcacgt aatgtgg

437

<210> 5692  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-H3  
  
<400> 5692

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gattctccat tatcttccct ctaaatgcct tccctaattgt tatctgnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngcgattca 300  
ngctcggaga anaangaana gcancannaa ggtaagttg ggcgttgagg atgttgaagt 360  
tgannaccct aatgctgttc caaagtttcg gatttctgca nctttgacgg gagaagctta 420  
acgggaaatg ggattgna 438

<210> 5693  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-H7  
  
<400> 5693

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aggaattgga tccaaaagag aagggggaaa atgttgaggt ggagatggaa gtgaaggcaa 180  
agtcaattnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
ncaaaaagaa agatggaaaa atggtctcca agaaacatga agaaggccat ggagatctgg 360  
aggttaaaga gagcgatgtg aaagtggaag agcatgagaa ggaacacaag aaggggcaaag 420

agaagaaaca cgaagganta aga

443

<210> 5694  
<211> 497  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-H8

<400> 5694

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aagaagatct ctcatcccc ttcaaaagca gacagattcg aaactttccc ccaaattcgt 120  
ggaaattttg tgtaggggtt tgggttattc tcaaatagaa tcaatcagat cgtttttttt 180  
tttgtagaa gaagatgaag atagcggcca atggccggtt tttcacaatc ggactcgtag 240  
cgtcatggta ttcacgaac atcggagttt tattgtgaa caagtacttg ttaagcaact 300  
atggattcaa gtatccgac ttcctcacca tgtgtcacia tgacggggtt gttctctct 360  
caactacgtt gcctattggc ttgggatgaa gaaggntccc gaatgcaaaa cgattccgat 420  
tcccaagttc antttcctta aagaatncgc ctgcngttaa ngccccgtt tccccggtg 480  
tgtccccgtg gggtttt 497

<210> 5695  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-H9

<400> 5695

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caaggagctg gatccccctgt catgattgat gctatgtcac acatcacaag ttgcttcagc 120  
tctgacacta aggtgctcaa aaaagcgatt cagaaaagtt tgcttgtctc tgctgacatg 180  
gcacatgctt tacatccaaa ctttatggac aaacacgaag agaatcatca gccaaagatg 240  
cacggaggac ttgtcatcaa acacaatgca aatcaacgtt acgccactaa tgccgtaact 300  
tcctttgtat tcagagagat agcagagaag cataatctgc ctgttcagga ttttgtggtg 360

cgtaatgata tgggttgccg atcgaccatt ggtccaatcc taacaagcaa tgtgggggat 420  
aangacggtt gatgttg 437

<210> 5696  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E1-B2

<400> 5696

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gtgttggatt cgaacctgaa cattatcana ancgaactcn ttcatttcga ttctgatctt 180  
cctcaanaca gnaccaaaga cgggggtttan agatacacta gtgtagacng aagaatcgta 240  
tctccaactc tcatgtgggt cgaagcattt gatctcattc tccaaaatct ctctaangnc 300  
aatttcaatt tcnncaaagt tatcgctgtt tcaagnacag ggcaataaca cggtagtggtg 360  
tactggtcag angaatttat ggggaattga gatnatggag gcattgagat gnctg 415

<210> 5697  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E1-B4

<400> 5697

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gatttgaaat catggcgaat gtagtgggac agctaaaacg aggaatctcg agacaattct 180  
caactggatc gcttcgtcgt acgcttagtc gtcaattcac gcgtcaagct tcacatgatc 240  
ctcgccggaa caatatgcga ttttagtttg gtcgacaatc gtcttttagat ccgattcgtc 300  
ggagtcctga tggttctaac ggtccgcagc ttgctgtacc ggataatctc gacgctacta 360  
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aaggt

425

<210> 5698  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E1-B5  
  
<400> 5698

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atcattgcag ttctatacgc cgtagcagaa caggaaggag cttcgaaaga agacattgac 180  
caacttacta aattcaaatt ccgaaagggt ggtgatacta tgaaacacac tgttgatgaa 240  
gaacaaggac aaggagattc tggaggagt atgactgaat gtggtacaga ttcacccgtt 300  
gaacatgctc ttctcatga ggatgcagaa tgctgcattt gtctttccgc ttatgaagac 360  
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ggctttacat aaatg 435

<210> 5699  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E1-C1  
  
<400> 5699

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ttctgcttcc gccattgctc gaaaatcgcg tcttctgaca atgtgctgaa actgagtcac 180  
cgtccgagtt agcaaagtga aacttcgaag tttctcttac actaatctca ggtttgggat 240  
tttgtaagaa accgcgttta caaatgttc aagttgaagc aatggttgat ttatttggtg 300  
tggtcgtaa gtaataatga acacagaang actggttctc aatattacat ttgttcgnaa 360  
nncactcgct aaanggggcc gtttgtttan atgganatcc accagcttat catttggn 419

<210> 5700  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB23-009-Q1-E1-D2  
  
 <400> 5700  
  
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 accaaaaagt gtaccttttg ctattcatag cgtaaccagg aggcaatttc ttaatcccaa 180  
 cacgttttat agatttgggt tctctccttc tcttcaggga agtagcattg agtttagcct 240  
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 aaatgatcgt cctcagaatg aagacttacc taagcagtac acaaggcgag agaagaaacc 360  
 tttcccagtc cctattgtgg acctgagacg agctgcgaag gaaagagtca agaacaacag 420  
 agacaaacct aaagagac 438

<210> 5701  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-D8  
  
 <400> 5701  
  
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 gtaagttttt tttttatttt ccggtgagtt gtgaaggaat aataacacac gcttcttctc 180  
 tccagttctc gaaaactcag atcttaattt tgtaaagat tcatggtttg ttcttgtaac 240  
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 ctaatagcgg cgatggcggc gggatggaac gtgaagctga tcgtggaaac ttggtcagaa 360  
 ggagacgcaa tagcttcaag tattggttta aacgtancaa gcanacacgc aaacgctaaa 420  
 cacatatgta tantacaa 438

<210> 5702  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-009-Q1-E1-E2

<400> 5702

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catctttcgc cggaggtgca ggcactggat tattactcat tctcgtggt tatatcagtc 180
tcaaagcttt tgagaagaag aagaattcca ctattgctat ggttcttcag acagtcacgc 240
cagctgctct cacactagtc atgggacagc gttacttgct gactggaaag attatgccgg 300
ctggtttggg tgctgggatc agtgctctca tgacctgttt ttacgtatac aagatcgcta 360
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tatccgttgt tgaatttg 438
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<210> 5703  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-E7

<400> 5703

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gtcactcagc agagaactcg tgtttttaat acttcagttt ctcgatgaag agaaattcaa 180
agatactgtt cacaggttgg agaaagagtc tggttttttc ttcaacatga ggtactttga 240
agatagtgtg acagctgggtg aatgggatga tgtagagaag tatccttctg gattcactag 300
agttgatgat aatagatact ctatgaaaag atttttcgag attcggaatc agaagtaccc 360
tgaagcactt gacaagaaag atcattcnaa ngcgggtgan attcngngtt aaggatttga 420
cagtgtcncg acatca 436
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<210> 5704



<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E1-E8

<400> 5704

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agatggcgag gaataaactt gtaagtggta gtcatgggat atggaaatat ttcaaccag 120  
cgttttatct ccgaagacca agacgtcttg ctttgtcat cactctcttc gtctctgttt 180  
caatggttgt ttgggatcgt caatctcttt cccgagacta ccagtttgaa gtttccaagt 240  
taaataaga agttttgcgg ttgcagcaga tgttggaaga gataaagagc gtcactgagg 300  
atgtgtctgt caatagtttg aaggatgttc aggaagatcc agttgatgct cagcgaatgc 360  
agagagttaa agaggcaatg gttcatgctt ggagttcata tgaaaagtat gcctggggac 420  
aaagatgagc ntc 433

<210> 5705  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-H1

<400> 5705

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aatgggctca gctaccggat ccaggagata acttcgagaa aagaggagga gcgggattcg 180  
ctgtggtaca agggaagatt tgggtggttt atgggtttgc gacctcgatt gtgcccggag 240  
gcaaagatga ctatgagtct aatgctgtgc aattctatga tccggcttcc aaaaagtgga 300  
ccgaagtaga gactacagga gcgaaacctt ccgcaaggag cgtgtttgcc catgcggtag 360  
tggaagagta tataataata ttgcaggtg aggtatggcc tgatctcaat gggcattatg 420  
gtcccgggac gctgtccaat ganggatatg 450

<210> 5706

<211> 441  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-D4

<400> 5706

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gtttacggtc ggtggtgcaa caggttggac cgtcccttct ggttctcaag tgtacagtca 120  
atgggcagaa cagagcagat tccaaattgg tgactctctg ttgttcgtct accaatcaaa 180  
ccaagattca gtgctccaag tcacaagaga cgcttacgac agctgcaaca cggactcacc 240  
aaccgctaaa ttgcgcgatg gcaaaacttc tgtcacgctg aaccactctg ggccatacta 300  
tttcattagt ggaaacaaag acaactgcaa gaaaaacgag aagcttgtgg tcatcgatcat 360  
ggctgataga agcggcaaca aaaacaccgc atcatcacgg ccgtccccag cccagctcc 420  
ctcangagaa tcccgtcct t 441

<210> 5707  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-D6

<400> 5707

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gctggttctt cctccgttac ttcttctctg tcgctcatcg gcttctctcg tttccaaacg 180  
ctgcgtttca aatcaagaag cgtttattcg aaatctagag tttcttctcc tgtctcggca 240  
ttgcctttac gttctctaga agctctgatt ttcgattgcg acggcgtgat tctcgaatcc 300  
gagaatctac accgtcaagc ttacaacgat gctttctcgc atttcgatgt tcgatgtcct 360  
ccttcttctt ctgagtctct cgattgggag cctcgagtcc taggataagt ttcagaatct 420  
antcggaggt tgggaaaccg anaatgcgtt gg 452

<210> 5708

<211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-008-Q1-E1-D7

<400> 5708

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tcgagaagtc atggcttctg cttaatctcc tcttccttaa aaaccagaag atcctttgtt 120
ccacgtttct cgtttgtagc ttcttctctc tcagaattca attcgaattt tgacaagtct 180
tgacgaagaa gaagaaacag agctgcttca atggcttcta actcattact acgttcttct 240
tcaaatttct tcttaggata ccatatcata atctcatctc ccaccctaa aaccaccaga 300
aaaccctctt tccctttctc ctctgtctcc cgtgctaaat accaaatcac tcgatcgtct 360
caagacgaaa attcgncaaa tggtaaacc anttcgccat tctcgtcgna ngtagcctta 420
ggcagccnat t 431
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<210> 5709  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-008-Q1-E1-D9

<400> 5709

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acgcgtccgc ccacgcgtcc ggttacaaca agactcgtcg ctcttcgctt tttcttctct 60
ctttctttct cttgccagta gtgtgatctt acgaagcttt tagtagagaa aaagcatata 120
cgctttgtct ttcttaatcg actgataagt ccttaggata agatggaaca aatgggtggc 180
tactcaaaac aacaaggctc atttttagtt tgattaaggg atttgatct gagcttactt 240
catcaacttt gtcggaatat acatttgctt tgtgtggatt tggaagttgt ccctgaatgg 300
cgtcgagga tttgaatatt gttgcggaat caaagaaagg ggaagagaat gttattgttg 360
ataattccaa ggacatgaat agacctgaga atcttgactt atctactgag aaaactgata 420
ctggcaatga gaatgggcc 439
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<210> 5710  
 <211> 439

<212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-008-Q1-E1-E11

<400> 5710

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 agttatgtac aaggatcgga gtggaggagg aataatgggt ggtgggtggat catcgagatc 180  
 ggagatcctt ggtggagcta ttgatcgga acgaannnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnntaaat ctcagcttca ttctcgttcc cccgatgttg aatctgacac 360  
 ggatagtga ggatcaagat gtgagtgggt cagaaggtga tgataacctc tggatctcat 420  
 gggtttgtaa tttganaag 439

<210> 5711  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-008-Q1-E1-E2

<400> 5711

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 ggaatcaata gagtcaattg gcgggagagg ttagtctcga aaagaagtgg aagccctagg 180  
 gggaaacttt ctgctcact cgtcgtctg caaacacat ggaagacagt cctcaaggcc 240  
 ttaaaaggag tagagatccg gatcaggatc aggatgacga cagcggcgag gctggcaagg 300  
 ccgacggaag cggcggagag aatcaggagc gcagcagcga ccagattgag ctcgatgacg 360  
 acgatttcca ggaaaccgt cccaagccca agcgtagtcg caccatcct cctcaacaga 420  
 atctcattga ggttgtaaaa ggcaacgggg atcttatttc taaagccgtc aan 473

<210> 5712  
 <211> 443

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-008-Q1-E1-E4  
  
 <400> 5712  
  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnctcg aatcgctect 120  
 ggtgttgag ctaatcttct cggccaacac tccgctgaga ggaaccaaga cgccactgtt 180  
 tacgtcgggtg gtctcgatgc tcagctttct gaagaattgc tttgggaatt gttcgttcaa 240  
 gctggacctg ttgttaatgt ctatgtaccg aaagatagag tgacaaatct tcatcaagaa 300  
 ctatggattc attgaatatc gtagtgagga agatgctgat tatgcgatta aggttcttaa 360  
 catgattaan ctccacgggg aagnctattc tgtttaacaa ngnatctcaa ggatangaag 420  
 agcctggatg ttggtgctaa cct 443

<210> 5713  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-008-Q1-E1-E9  
  
 <400> 5713  
  
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 gacaggaaga tacttacgaa agagtcgca ttagtaatta cgcgaaatctc acgacgatgg 180  
 agtcgttaca ggcgaggaat ccttttccgg cgactaacat acctctctct gcgacgctta 240  
 atgtattggt gaattgttct tgtggtgatg agagtgttc gaaagatttt ggtttgtttg 300  
 ttacgtatcc gcttcgtct gaagacagtc tcagttctat tgcganatct ccggtgtatc 360  
 ggcggnatt ctgcatnnat atnaaccngg gtgttncttt aactccgggg a 411

<210> 5714  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-F12

<400> 5714

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ccgtcacccg aaccggcgag ttagtcgctg ggattccaga tctgtttgte tacgtcttcc 120  
ttctgtctct gtgttcatca gagtaccaat tcgctcgatt gttgctgcat ttcgcgaatt 180  
gtattaggtt tatagcgtct atgaactcct gttttcgctc gatttgagta acctaggat 240  
ttctctacgt tgattgtttg gatttgaaga aaaggcgcaa agtatgagta gaaatttcgg 300  
aagtttcatg aagatttgag ggattgagtt aggtattgta gttgtagaga gaatgcagag 360  
tttatcgagc tcggctccga caccggaggc gatattagaa tggttacaga aggaaatggg 420  
gtacaa 426

<210> 5715  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-008-Q1-E1-F5

<400> 5715

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gccgacgcta atggcagatc taagtacatg gagattctcc aagaggtttc aaatcgtaag 120  
attcgagcta ttcaagtcga tctcgatgac ttattcaatt ataaagatga aagtgaggag 180  
tttctcggac ggttgacgga aaacactcgc cgatatgttt caattttctc cgccgctgtt 240  
gacgagttgt taccgaacc aacggaagcg tttccagatg atgatcatga tattctcatg 300  
actcagagag cagatgatgg gactgataat ccagatgttt ctgatcctca tcagcaagat 360  
tccttctgag attaaaagat attatgaggt ttattttaaa gtccttcaa agggaagggc 420  
atctaccatc agggaa 436

<210> 5716  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-008-Q1-E1-F6

<400> 5716

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ggtagcgaag canaaattcg cgggtcgacc cagcggtccg cagcgccctn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnngga aatcgatata cgattctcac tctctacccg cgaaaaaaca 120
ctaattgatt catatcctcc gtcaaggata aatctgtgtt tgattcacca tatctctttc 180
ttctccctcc gcgctaagct acgacgccta cagatctggc tggtaaaaat cagcgagata 240
gagactctgg cccgatgctc tctttaccca ttgatccagg ctttttctga tttctctttg 300
ttcctagaaa ccattaagct cctacctctt tctanttgat gctcgtgttc tcttcactgt 360
cnaatnactcc angttgtgat anctcaaaaat ctccgtgtct ttggncctgg tttgaatcgc 420
tcnttcactt a 431

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<210> 5717  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-008-Q1-E1-F9

<400> 5717

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aacgggtcag ttccatcttc tgtcaagtcc ttcccagcat cctcatttca aggtaatagc 180
cttctatgcg gtgctcctct gactccatgc ccagaaaaca ccaactgcacc atctccttca 240
ccgacaacac caacagaagg tcctggtaca accaatatag gtcgtggtac cgccaaaaaa 300
gttctctcca ctggtgctat tgtgggcatt gcagttggag gttcgggttct gttgtttatc 360
attcttgcca tcataacctt ttgctgtgcc aagaaaagag atggccgggc aagatacanc 420
gc 422

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<210> 5718  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-G1

<400> 5718

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atccagttca tactgtccat catctctctg gcaattccac tccaacttct gatgtccgta 180  
ccctcttata tgctttcttc atcgggctgt gtcagtggaa cattagtggg agcgagggaa 240  
gcccatcatt agtttcggaa acgggaaacc caggtgtatg catatcctcc tcgtactgtc 300  
cccgcagcaa tcatatagta gcttcttata gaccaagagt tggatcatct gatgatacag 360  
tcccgaactca gccctcattg actcaaacag gagtcagtaa tagtaatagt aatgggtgtan 420  
atgggatttc atgtttg 437

<210> 5719  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-008-Q1-E1-G12

<400> 5719

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ctagctttga gaaagattca atttttgagc ctttaagattg tgatgggagt tgtgtctatt 120  
tcaagttcag ctgcaagatc tccactcggg ttgggcaacg atcttttgac acatcggctc 180  
tcacttaaaa agccatccat tgttgctttt aaagccgatg attccagcaa ttcagctttg 240  
atcattcctc ctgctgagca agttttgatt cctgctgaaa agcataatga gaagaagaga 300  
gaagtaacga ggagaaagcc ttgtaaaacc ccgaaaaaac cgctttcctt ggaacataat 360  
tcggctcctt cgtgttcggt aggagtagat tacaatgaag ctgctgcaag acttgaaagc 420  
atatacaa 428

<210> 5720  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations



<223> Clone ID: LIB23-008-Q1-E1-D12

<400> 5720

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ttgccacact ccgccacaag agccgccatg cttgtacgaa tcaacactct cctccaagga 120  
ttttccggta tccgatttga gattctcgaa gcaattacca gtttctctca caacaacatc 180  
actccatctc tccccctccg tggtagaate accgcctccg gagatctcgt tctctctctc 240  
tacatcgccg gacttctcac cggtcgtccc aattccaaag ctactgggtc caacggtgaa 300  
gctttaacag cagaggaagc tttcaaatta gcaggaatca gctccggatt ctttgatctc 360  
caagcctaag gaaggtctcg cgtagtcaa tggcacggcg gttggatntg ggaatggggg 420  
caaatggtgt tan 433

<210> 5721

<211> 454

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-H7

<400> 5721

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tctctccgcg ccgggagttt ctccgattcc aattacttca gctcattccg tctatttgcc 120  
tacctatgtc tcaattggag ctccgcatga ggtaggacg cttttcgtcg ccggacttcc 180  
tgaagatgtc aagcctcggg agatctacaa tctctttcgt gagttcccag gatatgagac 240  
ttcgcatctc cggagctcag atggagctaa gcccttcgca tttgctgtgt tctcggtatc 300  
gcantcangc tgtanngtg atgcatgtc tcaatggaat ggtgtntgat cttgaanagg 360  
aattctantc ntcaaaattg gaccttgcca aaagcaaatt ccnaantct aaancggtca 420  
annaacaaaa tnaatgggtt tgggaaaanc tttta 454

<210> 5722

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-H9

<400> 5722

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ngagattgtg cctaaaagaa tcagagagta catagctatg aaagctgtag acttcttctc 180  
ttcttacttt caatctgatt tcacttttgt gatagagcaa cgttgggagt ttgttgagaa 240  
tcagacgttc cgtgctgctg aagtttactt acctacctgt ctgccggac tttctacagg 300  
caaacttctt gtgggttcaa gtaatcttaa gaatccagct gctgaagcca aaacttggtg 360  
nccctgtgaa cactnnngat tattgataac tttgaaggga tcacttagaa tggantcttc 420

<210> 5723

<211> 436

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-A1

<400> 5723

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aagaagatgg tgaggatcat tcctatggct gcttcctcca ttgcaccttc cctcgcttgc 120  
ttctcngatt ctctcgtt ccccatctcc ctctctcca gaaatctctc tcgcactctc 180  
catgttcctc aatcacagct ttttggttta acttctcata agcttttgag aagaagtgtg 240  
aactgtttag gagttgctga atctggtaaa gcagctcaag ctactacaca agatgatctt 300  
ctcacctggg ttaagaatga taagagaaga atgcttcatg ttgtttanctg tgttggcgat 360  
atggaccgga cgataaagtt ttatactgaa tgtcttggga agaaanctcc acgtaagcgt 420  
gatataccaa naagag 436

<210> 5724

<211> 422

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-A10

<400> 5724

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tcgagcacct gcatttgggg gctttctctt tatctggaaa caaagagagc cgccactgat 120  
ggaatgagtt tccgtgaatc atccaccag gtgaaaggaa tcataatttg gttgggtcaac 180  
taataataaa aatgggtgag gcaagtgatt cagattcgtc tgatgagtct ttgaaacaca 240  
atagcacccc accactcttt agcatctctg gcttcntttg tgttgccaaa ggaagagact 300  
ctgatcccg taggagccct acttctcccc ttgattttgg agtctttggg ggcctcttta 360  
nccccangtc ntctcttcn tcaacctcc aacggaaaca aatggtttct canaaaagtc 420  
gg 422

<210> 5725

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-A11

<400> 5725

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agcttggttt gatgttggtg acatcaatga agatggacct gatgatatgg aaggattgga 120  
tgtggtgct gcacatgttg caaatctgtt gtcgaatgag cctgctgaca ttaaattagg 180  
tgttgaggga ttcagcatgg gtgcggcgac atctctatat tctgcaactt gttttgctct 240  
cggtaaatat ggaaatggca atccataccc tatcaattta agcgcaatca taggcttaag 300  
cggctggctt ccttggtgcaa agacattggc tggcaaacta gaagaggaac angatnaaga 360  
ancgagctgc atcgttgccc attgttgtct gtcattggaaa agctgatgat gttggtaccg 420  
ttcaagtttg gggagaaatc ttcacaggcn ttgctttc 458

<210> 5726

<211> 439

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-B2

<400> 5726

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tgttgtcagg acgcggtgtg agcgccccgt tcagagatcc cgagatcctc ctcagcaaaa 180  
ccctagttgg atctccaggc tcgtttacaa acccgccagc gtaattgctt ccggcgccgg 240  
aaaattcatt tcttccgtcg tcttctccga ctcttctca tcttcggagg aggacgagga 300  
ttcatcttca gatattgatg gtgatgagga tgttgagaag aacaatcccg attttactga 360  
agaggacttc tgagtgccca agcaaccaag cattcaacga ctcanttcta agcgtgtaat 420  
tgagcanttc tcttgcaag 439

<210> 5727

<211> 431

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-008-Q1-E1-C10

<400> 5727

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ttaggctagc ttttggccgg atttcttttt cggttttggt ttatgttctc gttttctata 180  
gatccagttt gattttgtc ctttgtgttc taactcttag agggctcaat tccttgaacc 240  
tcctttgttt aaagggctca atttgttttt caagcttata gatttcaatt atataaggaa 300  
caaattagag ttgtggattg gggttttctc taatgccttt gagttgggtt ttatgcaatt 360  
gaagtcaatt gtcattattg gtttttggaa acgagtgttt ttattttact ttaagtgtt 420  
catggaagtt t 431

<210> 5728

<211> 440

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-008-Q1-E1-C11

<400> 5728

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ctaaaaagtc taaaacccta agtgtctccg cctcgtagct ttacccgatt caacgaagag 120  
tgaattcgcg tgagctcaag cagtatcgaa atctaccaat catggcgagt caaacaccga 180  
atctcgagtg tcggatgtac gaggcgaaat acccagaggt ggatatggcg gtgatgatcc 240  
aggtgaagaa cattgccgat atgggagctt atgtttctct cctcgagtac aacaacatcg 300  
aaggcatgat ccttttctcc gagctctctc gtcgtcggat ccgaagtgtt agcagtttga 360  
ttaaggtcgg aagaattgag cctgtcatgg ttctccgtgt tgacaaagag aaagggttaca 420  
ttgatctgag caaacgtaga 440

<210> 5729  
<211> 442  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-C2  
<400> 5729

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cacatcaaac aatctactgc tgctgctact acaaattcaa gaaaaattgt gaatgagata 180  
aatgaattac ctggaaatgg agattgtggt gatgctactt ctaaatctct tccaatccca 240  
gaaagagaaa ctcttcaaaa tcctcttgta gaagcaatac aaaaagaaac tgagttgggt 300  
gtgaaaactg tcgaagatgt gggaacaaat aatatggaaa ctgatactct agtgagccac 360  
ccggaaaatc atttggtggc caacagtgag ttgacatcta ctccagttac tgagaagaag 420  
aaaaggcaaa agaaagantc aa 442

<210> 5730  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-008-Q1-E1-C3  
<400> 5730

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 agaagttcat tttatcgtct ttcattggcg aggagcagca cttacgacct tggtttctgg 120  
 atctagtacc ggctttggtt gttttgctcg ccgcagctca tgtcatcgcc ttgggttact 180  
 ggatttacag attggccact nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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 gtcgcttatg aggatttcgg aaatgtttgc ttggaattcc gcctaactag aagtgatttt 420  
 gaagatactg ggtagatgg atcatatcag ctcacgaatt cgt 463

<210> 5731  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-008-Q1-E1-C4  
 <400> 5731

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 ttccattaca atctctttga acaaacctcc tctgaggaag agaatagtaa aaagaatctt 120  
 ctggatatgg tagagagaag cgcttattat gcagtccgag tcattctgaa acgtttgctt 180  
 tcggaacacg aaaacgctcg gtttgtagtc actggtcaca gcttaggagg tgctttagcg 240  
 atactgtttc ccacattggt ggtgttgaat gaggaacag agataatgaa gaggctgctt 300  
 ggagtttaca cgtttggaaca accaagaatc gggaacagag aggtcggggt attcatgaaa 360  
 gctcaactga atcaacctgt ggatcgatac ttccgagtcg tttactgcaa cgatatcgtc 420  
 ccgagattgc cctacgacga caaaacgttc ctctataaac atttcggact ctgtcttt 478

<210> 5732  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-008-Q1-E1-C5  
 <400> 5732

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acggcggttt aaagcccttt ctttccttct gcagcttacc taactccact gcgccgttcc 120  
 gggattcggt gagagcaaaa tccgatggat tggctcgggc ctatgttacc ggagcgccgc 180  
 ctatcggtga agaaccagac ccaaagattg aagaatccaa atctgaggct gaatcgaagg 240  
 atttaattag ttgggggctt ctgtggagct tgatgagcaa gcacaagctc aggctcagtg 300  
 tttgcttatt gactctcctt ggatgcagta cttgcactct ctctatgcct gttttttctg 360  
 gtagattctt tgaagtactg attgggggtga agaccggagc ctttgtggcg gctgctgaac 420  
 aaaattgctg t 431

<210> 5733  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-008-Q1-E1-C8  
 <400> 5733

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 atcaaattct cactgagact aaaccgatcc aatccaaaca tctcggagct ttgtttcctt 180  
 aaaacatgtc atctctgcaa taaacaactc catcaagaca aagatgttta catgtacaga 240  
 ggagatttgg gattttgtag tagagagtgc agagaaagtc agatgttgat tgatgataga 300  
 aaagaactag aggcttcgac gaagatgatg ttggcttcgt acagacgatg taataacggc 360  
 gccggaaaaa gcgagtctcg gaatttgctt gatgatctcc ggcgacgact caattaatta 420  
 tagttccttg aggctt 436

<210> 5734  
 <211> 434  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-008-Q1-E1-D10  
 <400> 5734

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gtatcagttg atnanaccaa aaacacggtg gtgctacggg cgggtgcacaa gaatgaanaa 120  
ggccggaaat ctgttgataa gttcgaagtg aagacacnta gtccgganac natcaagagc 180  
gttgatcggg agcttatgga gaaagggtgt caacggatgg atcgtcatcc ttccgatggg 240  
attcctctca ggcgaccacc atcnaagtca ggtcacggnn ggaagtacac ntgggaagga 300  
cctgatcggg tggaggatta ccagatgcag cnggatccan cggcgatnga tgaaggacat 360  
cntaattacg acgacgaaca ggtgaaagaa gantgggtga tgacctnnng gttgaacctt 420  
gttaaacgag aagg 434

<210> 5735  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-H5  
<400> 5735

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ctgcaacagt aggatcacta aagaggactg tgatggaggg tgtcagtgtt ttactcagcg 120  
gaggaatacg tgttgggggtg ttaatgcatg ggaagaaggt tagagatgaa aggaaaactc 180  
tgtcccagac tgggatctca tgtgatgaaa atctagacaa ccttgggttc accttgagc 240  
ctagtcccag caaagttccc ctacctttgt gttctgaaga tctgctgtg ccaaccgacc 300  
ctacaagttt gtctgaacgg tctgcggcgt ctctatgct agattctgga attccacatg 360  
cagatgacgt gattgattca agaaatattg tggncataa cctcca 406

<210> 5736  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-D4  
<400> 5736

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tccggaaata ttcatcgcaa ttcgtatcgg tttaaagtaa aaaaagcaat gggagggtgg 120



aaagacaagc atcatgatga gcaagagaaa ggatttcatg gttttccagg aggtggacat 180  
taccacactg ctcaaggagg ttaccctcct caaggttacc caccacaaca agggatcct 240  
ccagctggag gctaccacacc tgccggatat cctcctgggtg cttaccctgc tgcgcccgt 300  
ggttatcctc ctgcacctgg aggttaccct cctgctggct atcctgcacc tggagctcac 360  
cattcangac attctgggtg tggactcng atgcatgata ncaggtgcaa ctgggtttanc 420  
cgcaagcaag ctttatggag ctcanctgt tnggcaagnc tcttaaaaac cct 473

<210> 5737  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-D6  
<400> 5737

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agactcccaa agtttataga gactcctcct cttgagggaa gtgtttcatc aggaggtaat 120  
gggccaacac cgttgtgtct tcctctagga tgattacttg ttgatgatct gtttcttcga 180  
cggacacaga aactcactgt tattggtaac actatgagaa tgagcataag caatatagac 240  
cctccaactg cagcaagtat aactattttc gtgtggctta accaggaagt tttagaactc 300  
ttcttctctt catgttgtcc gaaattgttg aaagttaagc ctttttttga ataaaacaaa 360  
gtgcaatccg acaacttccg ctgcttctct gggccctgaa gacaattgtt gctcaatgaa 420  
gctctggttg gcacaaa 437

<210> 5738  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-E1  
<400> 5738

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taccgattct tttggattac tggccaagta tggtcgggat gagggctaga gttgcgttgc 180  
gagagaaagg tggtgagttt gaatacagag aggaagattt ctogaacaag agccctttac 240  
tcctccagag taatcccatt cacaagaaaa tcccgtttct ggtccacaac ggtaaaccgg 300  
tatgtgaatc tcttaacgtt gtccagtacg tcgacgaagc ttggcccgag aagaanccgt 360  
tcttccttc cgattcttac nggaaaactc aaggctcgaa tctgggctga attcntggac 420  
aaagaaantt caccgaagcc caaatcaaag gattgggggg naaaaaaggg 470

<210> 5739  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-E2  
<400> 5739

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aacaatatgg atgttcatta gggacatgat caaaggaaca ttctctctg tcatactagg 120  
cccacccatt gttgctgcga taattttcat agtccagaaa ggaggtcctt atcttgccat 180  
ctatctgtgg gcattcatgt ttatcctgtc tctagtgatg atgactatat acccggtctt 240  
gatagcaccg ctcttcaaca agttcactcc tcttccagat ggagacctcc gggagaagat 300  
tgagaaactt gcttcttctc taaagtttcc tttgaagaag ctgtttgttg tcgatggatc 360  
tacaagggtca agccatagca atgcttacat gtatggtttc cttaagaacn aaaggattgt 420  
tccttaagat acgttgantc agc 443

<210> 5740  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-E3  
<400> 5740

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tctcttcggt aagaagaatt tgatactatt cttctcgatt tagaaatttc aggggtttgt 120

tcttgtttca ggttttggga agagaatctg tgcgacaaga gactgtgact ggtggttgct 180  
 ggaacgagaa aacctccaag actggtggta atgttgatag aaacagggaa caacaggaga 240  
 atcatggttc aggttatcag caggatcaga gagtacaacc ctgtcatctg agttcttcca 300  
 tctattacgg tggctctgat gtttatttcc agcctcaaaa ttccaccagc aactctacga 360  
 acaaagaaag atggaggcga aagatgantic cggaagtgc ctcaaagaag gaaattggtg 420  
 gcaanggtcc cctgtattaa cnaag 445

<210> 5741  
 <211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-E5

<400> 5741

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 ctcgtcacca tccaaacctt ggatggtgac atgtccaccg atcaatcctc caccgtcgta 180  
 cttcccgacg tcatgacggc gccagttcga ccagacatcg ttaacttcgt tcacgcccaa 240  
 atctccaaca acagccgtca gccatacgcc gtatcgaaga aggccggtca ccagacctcc 300  
 gccgagtctt ggggaaccgg acgtgccgtg tctcgtatcc ctcggtgttc cggtggtggt 360  
 actcaccgtg ctggtcaagc tgcgttcggt aacatgtgtc gtggtggtcg tatgttcgct 420  
 ccaaccaaga tctggcgccg ctggcaccgt cg 452

<210> 5742  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-E6

<400> 5742

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gagcctccgg ttacatcgcc tcatggctcg tcaagttcct acttagccgt ggctacactg 180  
 ttaaggcctc cgtccgtgat cccagtgatc cgaaaaagac acaacactta gtttcactag 240  
 aagggtgcaaa ggaaagactt cacttgttca aagcagaccc tttggaacaa ggttctttcg 300  
 actctgctat tgatggttgc catggagttt tccacactgc ttctccattt tttaatgatg 360  
 ccaaagaccc acaggctgaa cttattgatc ctgcggtcaa ngggacgctt aacgttttga 420  
 attcgtgcgc caaacctcc tccggtaaaa aggggttggtg ttaacctccc ccangg 476

<210> 5743  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-F11

<400> 5743  
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 agatttaaga gaaaccttat cggttatattc tctcttctct tttctttttg actcccacaa 180  
 gaagaaagca aatttctttt tctcaggatt gcttgaaaac tgtagaaatc tttaagggtt 240  
 ttttacacca atannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntc tattcataaa 300  
 aaagacaggt aatctcaact ccgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tgggtgcttt tttaacanct tgggcctggg 420  
 aaaactttgn aatcccca 438

<210> 5744  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-F12

<400> 5744  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnga cttttgaagt tttgatctga agaaaagagg tttcgttgta attggtttat 240  
 acatcatgtc tgggtcgagt atgtataaga cgaagctttg tattctgttc aataagactg 300  
 gtgattgttc gaggccgaat tgtacttttg ctcattggaaa tgctgagctt cgtcgtcctg 360  
 gcgaatcttc ctttacagga agactcacia tatgggatag tgacttaaga gatagacgtc 420  
 acaatatgnt a 431

<210> 5747  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-G1

<400> 5747

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 ncaaaacat catcattttc ccgtaaaacc ctaatcgcca ccggntccgt cgtatctctc 180  
 ctcttaatatc tctcgtcgt cgctttaacc gccggagctt tcaactcactc tctccacac 240  
 catccaccta tctcctccgc ctctctcaag tcaactatgct ccgtgactcg ttaccagag 300  
 acctgtttca actctctatc atctctctc aacgaatctg attcaaagct taaccctgaa 360  
 tcaatcctcg agctttctct tcgagtcgct gctaaagaga tctcaaact ctctatctct 420  
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 ca 482

<210> 5748  
 <211> 432  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-G3

<400> 5748

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cgctgacgca ttgtcttcga ggaggtcttc cccaagagtc accaatgagt ctgtccagaa 120  
 ggctgctgct gctttgaagg gatctgacca ccgccgtaca actgaagtta gcgcaaggct 180  
 agatgctcag cagaagaagc ttaaccttcc aatcctccca accacaacca ttggatcctt 240  
 cccacagacc gtggaactca ggagagtctg ccgtgaatac aaggccaaga aaatctctga 300  
 agaggattac gtcaaggcca tcaaggaaga gatcaagaaa gttgttgaca tccaaganga 360  
 ccttgacatt gatggttctt gttcacggag aacctgagag aaacgacatg ggtgagtacc 420  
 tttgngaaca aa 432

<210> 5749  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-D3  
 <400> 5749

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 cacgcgtca ctttgatctt tgcttttccg atctttaggg tttttgtta ggaattgtc 180  
 gaagactctg ctctaactg tctggaagaa aagaaacggg tttagatttg gccaagtttg 240  
 tagataaggg tgtgcaagtt aagctcactg gtggtagaca agtgactgga actcttaaag 300  
 gctatgacca attgcttaat cttgttcttg atgaagcagt cgagttcggt cgagatcatg 360  
 atgaccttt gaagactacg gatcagacaa gacgccttgg tttgattgtt tgccgtggaa 420  
 cancgatgatg cttgtctcaa caaccgatgg cancgaagaa atcgctaaac cgttcggt 478

<210> 5750  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-006-Q1-E1-A8  
 <400> 5750

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accgccgtta tccacgaggc tgctgttact gatgggtgcg atcgaaatac tggcaatctg 180  
 ttatactcgg tcgctactaa gtccctaca aatgctcttg tgcacgccc tacattgctc 240  
 aagtacattg ttaactctaa gattaaaact ccagcccaat tggaagctgc atttgctttt 300  
 tttgccagta ccggtcctga ggactttaag ctgaatgagt ttgaagaggc atgtggtgtt 360  
 gggattgaag tttcccaga agatattgag aaagcagtta aaggaatctt tgaagagaat 420  
 aagaaaacaa tattggg 437

<210> 5751  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-B1  
 <400> 5751

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 ccgagctgat cagaaacccg agagtgatga agaaagttca agacgagatt cggacaacac 180  
 ttggggacaa gaaggagaga tcacagaaga agatttaaac cagcttcact acttcaaggc 240  
 tcatggccaa agagatatcc anggttacac caanaagtcc acttttgctc ccangagaga 300  
 cattgtcnca tgtcaagatc caaggctacn atattcnngc taaaacacag atcatgatca 360  
 acgcttacgc nattgcacgt gatccaaaac tatggacaaa ccctgatgag tttanccga 420  
 aaggttc 427

<210> 5752  
 <211> 392  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-B10  
 <400> 5752

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 tttcgatgac tccaaanccc ttactgttgt tgagaaacct gtagaagagc ctgcaccggc 120



gaaacctgcg tctgcatcgc tcgatagaga tgttaagcta gctgatttgt caaaggaaaa 180  
gagattgtct ttcgtcagag cgtgggaaga aagcgaaaag agcaaagcag agaacaaagc 240  
tgagaagaag attgcagatg ttcattgcttg ggaaaacagc angaaagcag ctgtcgaagc 300  
gcaactcaag aaaatcgagg agcaactaga gaanaagaaa gcacgagtat gcaagagagg 360  
atgaataata aggttgcata gattcacaan ga 392

<210> 5753  
<211> 442  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-B11

<400> 5753  
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aaaagcaatg tcgtggacga tatggttgct agcaatggta tcctctttga gcctggggaa 180  
caccgggacc atgttgttgt catcaagtat gtaccgtatg ttgcggatag taagcgagcc 240  
atggacgagt acacatcaga gatattcatg ggagggaaga acacaattgt gatgcacaat 300  
acctgcgagg actctctctt agctgctcca atcatcttgg atcttgttct cctcgcgag 360  
ctcaacaaca aggattcagt tcaaattcca agggaaaagg gaaagnttca ctcttttcaa 420  
tcctgttggc aacataatca nc 442

<210> 5754  
<211> 449  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-B2

<400> 5754  
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aaactttctg gaaaaacaaa aatgtcagga agaggaaaag gaggaaaag gttaggcaaa 120  
ggaggagcaa agagacacag aaaggttcta agagacaaca ttcaaggaat cacaaagcca 180

gcgattcgtc gtcttgctcg tagaggaggt gtgaagagaa tcagtggatt gatctatgaa 240  
 gaaacgagag gtgtgttgaa gatttttctg gagaatgtga ttagagatgc tgttacttac 300  
 actgagcatg cgaggaggaa gacggtgact gctatggatg ttgtttatgc cttgaagaga 360  
 caaggaagaa ctctatatgg atttggtggt tgatcaattg agatctgggt ttccggtgaa 420  
 tgatgatgat tttaatcctg catttnaaa 449

<210> 5755  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-B3

<400> 5755  
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 acatctctgt gaaaagctct tgaccgagac gccacataag gtgcttgccg tcgatgttta 180  
 caacgataag atcaaactact tgcttgagcc tgataccggt gaatggagtg gtcggatcca 240  
 gtttcatcgt atcaatatta agcatgattc gagacttgaa ggtcttgta agatggcgga 300  
 tctgattata aatcttgctg cgatctgtac tccaagctga ttacaataga cgtcctcttg 360  
 atactatcta cagcaatttn attgatgcgc ttccagttgt gaaatactgt tcttgagaac 420  
 aacaaacgtc tcaatcn 437

<210> 5756  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-B6

<400> 5756  
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 gacaaaggag cacctcctag tatttttgtg aatgatgggt cattcatgga aagattcaga 180

cagcttcaac aggagaaaga taaagacaag gataagggtg tccaagttga ggattctaag 240  
 ccggtgaaga ttatatcaaa tcccaaact gctgctaata aaatttccat tggattaaag 300  
 cccaatgatg ccagaagaa aggtggtaag cttgctttca gcttgaagca aaagtctaag 360  
 cttcttgac ctctgtgaa gcttggtaca gaagaagatg aagatgatga agatgttaac 420  
 atgnacaaag g 431

<210> 5757  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-B8

<400> 5757  
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 gaatatcttc cacgggggag tccttcggaa gcatgcttga tgaaaatatt tgttgccact 120  
 gtggaaacaa tactcagtag aacttttccg cctgaatctt ccagggaact aaccagaaaa 180  
 gctagatcga gttttaccac aagatcagcg accaaaaatc ttgctatgtc tgagcttcgt 240  
 gctatggtcc atgctctctt tttagaatca tgcgctggtg tggaattagc ttcacgccta 300  
 ctttttgttg tgttgactgt atgtgttagc catgaagcac agtctagtgg tagcaagaga 360  
 ccgagaagtg aatatgctag tactactgaa aatattgagg cgaatcaacc tgtatctaac 420  
 aatcaaactg ctaacc 436

<210> 5758  
 <211> 432  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-C12

<400> 5758  
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 atcatctaag tgctggtgcc ttgattctgc agttctccat tttaatccaa caaaaaaaga 120  
 agctgaatcg acggtataga ttcttcaaag aagcaatcat aacgcaattg attatatccc 180

caaaagaaaa ggttttttaa ctccaaaaat gcagactcca aaatcaagtg attgtgattg 240  
 tgtgtgatag gccaggatca ttggagctgc cacaaaagaa gtctccttta ccagctccca 300  
 aagttgttag gagactcaaa ccaagcggag cagaatccga ttcaaaaacc aagacaatat 360  
 cgaaaactca aatccccgaaa gtataactga tngtcgctct gcaagaaacc ctcccaatga 420  
 gaatcagaag aa 432

<210> 5759  
 <211> 397  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-C4

<400> 5759  
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 aatgtctcgg agatatgata gccgtaccac aatcttctcg ccanaaggtc gtctttacca 120  
 ggtagagtat gctatggagg ccattggaaa cgccggttct gcgattggaa tcttatccaa 180  
 agacgggtgtt gtgttgatcg gtganaagaa agtcacctca aagcttcttc aaacctcaac 240  
 ctctgctgag aaaatgtaca agattgattg accatgttgc ctgtgctgtt gctggataa 300  
 tgtcngangc taacatactt atcaacacgg ntcgagttca agctcaacgt tacaccttca 360  
 tgtaccaaga gcccatgccg gttgagcaag ctggntc 397

<210> 5760  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-C7

<400> 5760  
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 nnnnnnnnnn nnnnnnnnna aatcgtttca tcttttttcc ttcttctaatt tttttttagg 180  
 tttttaatta acttttgctt caagttttct tctatagatt tcttactcag aaaagtttctg 240

aattcgaccc tgtagcttag ttgttggtta taatttcttg tgatcattca cagtacaaaa 300  
aaactaattc acccaccgan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt ccgggaaatt tgatctcttt acctttcgtc 420  
attattaagt angga 435

<210> 5761  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-C8  
<400> 5761

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agaaccagaa cgaaacccta gcaaaatata gccatgggta aggtcaaagg aaagcatcgt 120  
ttggataagt actatcgtct cgctaaggaa cgtggattcc gttctcgagc ttcctacaag 180  
cttcttcagc tcgacgcaa gtactctctt ctccactcag ctcatgccgt tctcgatctc 240  
tgcgcgcgcc ctggtggttg gatgcaagtc gccgtcgaga aagttcccg cggcagcctc 300  
gttctcggtta tcgatcttgt cccgattctc cctgttcgtg gctgtgttac tatgacgcaa 360  
gatatcacia ggactgagtg taaatcgaag atcaagcaag tgatggagna gcatggtgtt 420  
agtgttttta atttggttct gcacgatggg tctccaaatg ttggt 465

<210> 5762  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-D1  
<400> 5762

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tgattttggg gcnttcaatg agaaagttac aatctctcca acttctactt cctcgtcgcc 120  
tccttctcta cagggtctta ctttcgcat taaagacatt tttgatgtgg aaggacgcgt 180  
taccggtttt ggtaaccggg attggttaag gacacactcg gcagctactt ctacagctcc 240

agtagtttca tctctcttag aagctggtgc cacagctttg ggtattacca ttatggatga 300  
aatggcttac agtataaacg gagaaaatgc gcattatggg actccgagaa acccgattgc 360  
tttcgataga gtgcctgggg gatcatcgag tggctcanc gtanctgtan ctgctcgtcc 420  
tgtggatttt ccaatgggac tganaa 446

<210> 5763  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-D2

<400> 5763

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agcgggagat tccagattga gagcagcttc gagtctctct ctctcgcgcg ttccttttcg 120  
cttcttcaag tttcgttgcc agagagattc taggtattga agttatagaa tggactttga 180  
tgagtatgag tacttagaga agacagttga aaatcctcac ctggagaatg aagttggtaa 240  
tggtggtggt gatgagaaag tcaaactcga agggaaagag aggagtagga gctcaaggca 300  
tangggtgac aagaagaagg agagggatga agatgaggat ggtcggcggt ctaagcggtc 360  
gagatcgcat caccgttcac gttctaagga cagatagaag gataagcata aaat 414

<210> 5764  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-A6

<400> 5764

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cgttggtagc atggagttat tacattcttt tacaccacgc caggagggac aggaaggatga 120  
atctctcct catgagcctc caattacaaa actgtatact agctcaaagc atgattgggt 180  
agctgctatc aattgctttg gggacatata tgtgttcaac ctggaaacgc agaggcagca 240  
ttggttcata tcaaggcttg atggtgcac tgttcagcc gctgggtttc atccgaggga 300

caacaatgtg attgtgatct ccacctcttc aaaccaggtc tttgcattgg atgtggaggc 360  
tagagagttg agcaagtggg cattgctgca nactttttgt ctgccaaaga gctacaaaaa 420  
ttttcctggg tgan 434

<210> 5765  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-G1  
  
<400> 5765

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ctttagcgag aagtagctgc ttcattcccca aaccttattc ctttagagat actaagctga 120  
gaagcagatc caatgtcgta ttcgcgtgca atgataataa gaacattgct cttcaagcta 180  
aggtagataa cttgttggac cgcattaaat gggatgacaa aggattagct gtggcaatag 240  
cacaaaacgt tgatacggga gcagtattga tgcaaggctt tgtaaatagg gaggcctctc 300  
ccacaaccat cagttctcgg aaagctacat tctttagtcg atnaagatct accttaagga 360  
ctaagggaga gacatccaat aacttcatca ataactctga tgtgtaagtt gantgtgatc 420  
gtgaatcgat tatttncctt gggacaactg atg 453

<210> 5766  
<211> 464  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-G11  
  
<400> 5766

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gagacgtgcc atgactttcc cgagagatag tatgatttac cgagaaaggc attgcgctcc 120  
tgagaatgag aagctccatt gtcttatacc ggctcctaaa gganatgtga cacctttctc 180  
ttggcctaag agtcgagact atgtgcctta tgctaatacg ccgtataaag cattgactgt 240  
tgagaaggct attcagaatt ggattcagta tgaggagac gtttttagat tccctgggtg 300

tggaactcag ttccctcaag gtgctganaa gtatatcgat cagcttgctt ccgtgatanc 360  
 tanggacgaa cggaactgtt aggactgctt tggacactgg ttgtgggggtt gcaagttggg 420  
 gagcgtactt anggagcaga tnatgtgcgt gcaantgtcc ttg 464

<210> 5767  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-G2  
 <400> 5767

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 ccctaatacac tctgagtacc actgactcac tcagtgtgcg cgattcattt caaaaacgag 120  
 ccagcctctt ctctcttcgt ctactagatc agatccaaag ctctctcttc cagctatggc 180  
 tgcttcagta cactgtacct tgatgtccgt cgtatgcaac aacnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
 nnnnnnnntct gagagagctn agcanagaaa acacaccaat tggtccttct tctcctggat 420  
 ttnaaccaat tccaaccttt tgaagaaagc ctttctaaaa 460

<210> 5768  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-G4  
 <400> 5768

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 ggggtgttttg aaagaacccc gacaatggcg tggaacgtgt tcaagttctg cacagcactt 120  
 cgcgcttggt gttcgatcat gatcttaatt gttatcgggg tcatcggatt cacatactac 180  
 gccgttgctg tcgttaatta cggacctgct ctactgatcg gtgggtgtcga ttcattacta 240  
 tctgttctcg tcttagcggt ctccacttt ctgcttataa tgctactgtg gagttatttc 300



tctgttgttg tgacggaccc tgggtggtgtt ccaacggggt ggaggccaga attagacata 360  
gagaaaagcg aaggaaacca agctttgant ggagaagctt cggttggana tcctccgtn 420  
caatggtgta agatattgtn aaaaagtga tcaataataa accgccccgt ttcaacaatt 480  
gttaatn 487

<210> 5769  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-G5

<400> 5769

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ctctgtagtt ttcagattga ttcgttggtg gaaagcgtct aaattttgcy taaatggcgg 120  
cagctcttgt acgcagattc tgccggggat catcttttcc ggtctctggt catggatata 180  
ggatgctatc gacggttgaa aatgtatctg aaagtggtaa atcgatgaat ctatactctg 240  
ctattaatca agctcttcac atcgcttttag agaccgatcc tcggtcttat gtttttgggg 300  
aagatgttgg atttggtggt gtcttccgat gtacaacagg attagctgaa cgttttggga 360  
aatctcgagt tttcaacact cctctctgcn agcaaggcan tgttggcntt ggcantgggt 420  
taaccgcaat ggaaatcnaa ttatt 445

<210> 5770  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-G6

<400> 5770

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gagaaatcga tgaagctaatt cttgctcctg aaacttcact tattaacaaa gagaatcaag 120  
actcatcggc gacaataaca actactctct tgctcaccac tttttagacc gtgtctggtt 180  
cctttgtctt tggctcagct ataggatatt catcacctgt tcagtcggat ttaaccaagg 240

agttgaatct ctctgtggca gactactcgc tcttcgggtc gattctgaca attggagcaa 300  
 tgatcggcgc agctatgagt ggacgaatcg ccgatatgat aggcagacga gctactatgg 360  
 gtttctcgga gatgttttgc attctcggct ggtagcaat ctaccttcn aaggttgcaa 420  
 ttggctttaa ctttggaan attcctgggt tgggttatgg aaatgggc 468

<210> 5771  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-G8

<400> 5771

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 aggaaggatt gaactatgga agatgcatca gagactagct actggtgtca catgtgctcc 180  
 cgatcgggtga ttccattgat tcaagacgaa atcatcaa atgcaatttctg tcaaagtgg 240  
 tttgttgaag aaatggataa taatgatgac catcaggctg ctgattctct ctggactcct 300  
 atcttgatgg agatgatgaa caacaatcac gaccaacatt ctacaaatca ggaagactca 360  
 gaatctattc ttggaagatg agacgaagac gaagatgatg gtgatgatgg tgatnagaac 420  
 aagatggaga aattgtatna cctca 446

<210> 5772  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-H10

<400> 5772

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 ctacctgaag actattctct ctcaaaagct tacggaacga aatgactcac cgtatagctc 120  
 ctcatgttt ctccaccatc atgcttctat gtcttctata tacttcacct ctatagtgta 180  
 tagctcaggg tcaggaggga caaggtgata taccagttgt taatcctaca gctccagggtg 240

gtagtaccac aacaccaacc ataacacaac cgtcaccgcc ttccttgaca ttcccaggtc 300  
 caactacacc aactgggtgt tatccacctc ttgacggtag cacgcccaacc ggtgggttacc 360  
 caccacttta tgggtactaca ccgccannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
 nnnnnnnnnn tacacctggt gggaggtgga ggtggaggtg gtgacactgg tg 472

<210> 5773  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-H4

<400> 5773

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 ccctgctatc ctgcgctttc tctcccttat catacgctc tccggccact ttcagtcgcc 180  
 gtcaccttct tcaagctcct gtaactgann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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 nnnnncaatt ttgcgaaatt tccgggggaa naaccncggt ccnngtcttc ctnngttccc 360  
 cnaaacggaa aaatccttcc gntaaatcct tatccnggga annccggcgt ggcccnccgg 420  
 nggaaaatta atcgncttgg gccttttctt caaagg 456

<210> 5774  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-H8

<400> 5774

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 ccnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncgattttt ataaaaatgg 180  
 cggcggatgc tctgagaatc tcgagttcta gttctggttc gttggtttgt aatcttaatg 240

gttcacaaag acgacctgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaattcc tcagtttctg ggtacttctc 360  
 gtattgggct angttcttcc aagctctcac aaaagaaaga aacaattctc aatcttcgct 420  
 gcaactgaaa ccgaagngaa a 441

<210> 5775  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-A10  
 <400> 5775

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 ccaangctga taagtaacct taaaccanag acgcaatcaa agcttataga taatctcaac 180  
 gccttcaatc ttgattgggt taagtccttc ttaagactct ctacttgga agctgtcacc 240  
 aaagncctca agtcacgcga agaagctatc caggtgatga aagacgttct catgatgaga 300  
 aaagagacgc gagagangca agaagacttc cttaanacgc ttctagaaga antggngaana 360  
 gacggtagct ttttcgacta angatcggct atnaatctca tcttccttct ggcgtttgcc 420  
 ttgagagaan gtacctcaa gttgtactgc tttggccgtn aaagttcaaa tcc 473

<210> 5776  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-A2  
 <400> 5776

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 ctctttcaaa aatgcatttc tcttcgtctt caacatcgtc cacttggaaca atcttaatca 120  
 cattgggatg tcntatgctt catgcattct tgtccgctgc tcaactcacc cctaccttct 180  
 acgataggct atgtcctaata gtcactaaca tcgtacgaga aaccattgta aatgagttaa 240

ggtcggaccc tcgtatcgct gcgagcatcc ttcgtcttca cttccacgac tgctttgtta 300  
atggtttgtga cgcattccatc ttgttagaca acaacgacat catttcgaac agagaaagat 360  
gcggtttggga aacgcaaatt cggctcgggg atttccagtg attgatagaa tgaaanntgc 420  
ggttggaaaa ggnatgccca anaaccgttt cat 453

<210> 5777  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-A3  
<400> 5777

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acgagctoga gattattgat tttcaagtgg agattgaatc agtgataatg gacaatgaga 120  
cgaaagcaac caccttcagc aaatcaacag ggcttcctag gaagagattc tacagagcaa 180  
gagctcatag taaccactt agcgattctc acttcccaat ccccatatct ccagctcatg 240  
tcgactattc acttcacttc cccaaattcg ttgaagctga caacaaattc atcaagaagg 300  
ttgagtttgc ggatatcgga tgcgggtttg gtggcctact aatctccctt gcgacgcttt 360  
tccccgatac gctaattgat ggtatggagc tcagagataa angtgacggg agtacgttna 420  
agaacggatc ttanctttta aggggaacaa actccggggg 460

<210> 5778  
<211> 442  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-A5  
<400> 5778

caganaggtc ccggggccga cccacncgtc canccacgcg tccgcccacg cgtccggcag 60  
tgactgctgc tcaaggacct caggataccc aggccctgaa cggaagattg gcagcaccta 120  
gttcaccatt tgatgatgac tctgatgatg ttgatgagca acctcttggt agacacaggc 180  
caagacgtgc agcatccgga tctctggctc cacctaacgc tgatcgttcc cggagtggga 240

gtcctgaaga agaacatgca agtattaatc cagcggagcg tggcagtggg tttccttctg 300  
 agtggggagg catttcatct gaggaacatg atgaagctgt catgctcgag gcaaccatgt 360  
 ttggtggcat tcctgaaact ggatataatc atcttccatt cttacctcct caaccgaagg 420  
 cccaancaag tcaacctcaa ct 442

<210> 5779  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-F5

<400> 5779

acgcgtcnng gaaaacagct atatctatct tcaagtggaaa atttgccaag tcctcccaag 60  
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 attctttgga agaagttgct gggatgatac gcaagactat ttctgtctat gaagcaaagg 180  
 tgaacagcac attttgtgat ttgatgaat catgcattct ccgcccattt atgagtgatg 240  
 ccattaacga agtatcaaaa gcatgccaaag cttttgaagc caaagagtca acgccccaca 300  
 gtgctgtcgt tgcaactgaga aaaatccagg cggaaatcac taagatttat atccaaaggc 360  
 tttgctcttg gatgaagggc ctccacggaa ggaattcaaa agaggaacnt ggatccgggt 420  
 ccaatcctga a 431

<210> 5780  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-A8

<400> 5780

acgcgtccgg tttttgcttt atcgtaggct tccttcattt gcacgaacaa caacaacaac 60  
 ccttctctgc aaatctatgg agcctgcgat aacagcgact tcttcttctt ctttcgggtg 120  
 tggctcttct cgtctcgccg ctttagccca gcaacttcgc caatacaagc cccaccttc 180  
 ttcacgttc gatgactccg aggagatgca gacagatcag gagaccgctg ggaaagtcgt 240

ttctcaggtt gggtttcagg aatctattgc tctcttttcg aaagaccctg ataggtttaa 300  
 acccaagaga gccgctgtgt tgatctgtct ctttgaagga gatgatgggtg atttgcgtgt 360  
 tattcttact aagagatctt ccaaattgtc tactcactct ggagaagttt cattgccagg 420  
 tggtaaagcg gaggangatg ataa 444

<210> 5781  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-B3

<400> 5781

gaattaacgg gccgaagcca cgcgtcanct cacnctttgt gcaagaaacc ttgagagctt 60  
 aaaaattctt cacttgggtc tcttctctct ctcttctctt gcgaccattc cgttcgatcc 120  
 atatatcaaa gcttgattta gttgggtttc aatggggggac agtcagtact cgttttctct 180  
 caccaccttc agcccatcag ggaagctggg tcagatagaa catgccctaa cagctgttgg 240  
 atcaggccaa acatcacttg gaattaaagc ttcaaatgga gttgtcattg caactgaaaa 300  
 gaaacttctt tctatattgg ttgatgaagc gtctgttcaa aagattcaac atttgactcc 360  
 caacattgga actgtttaca gtgggtatggg tcttgatttc cgagttcttg tgcgaaagan 420  
 tangaagcat gctgagccan tatccccgtc tgtacnagga a 461

<210> 5782  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-B5

<400> 5782

acgcgtccga aaaattaaat atccatccaa ctgtgtgaat tagatatttt ctcttatctc 60  
 ttctctttgt tcgatcaaaa attcaatttt cccgagattt ttgtttctct cgatcgattc 120  
 aacacctaaa gattgaagct tttgctcgtg gggttatgtaa agtttccacc tttcgtcttc 180  
 tttctgatct gtgagcaaaa atgggacaac agcaatcaaa aggggaattg ctgtatcagc 240

aagttagtta tggtaactct gaaggaattc gagctcttca tcgagatggt ggagaccttg 300  
 agtggatgga tagagaagga aaaactccgt tgatcttggc ttgtatgaac tccgagctat 360  
 ttgatgttgc taagactttg attgagttgg gttctaattg naatgcttat cgtcctggcg 420  
 tcatgctggg actcccctgc 440

<210> 5783  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-B6

<400> 5783

taactgnccg cgggacagta aaggtanaga ntncccgggc cgaccacnc gtcangttga 60  
 agcgagcaag atacgacacg aaatcgatct ccccttggc ttttccatct ccgtcgtctg 120  
 ctgaaacat ttgatcgatc tctcagataa ggttctcagg atttaggttg cttctatgag 180  
 aaggacacgt tgcagttggt gtttcatgtc tagtttctca accgtatagg gagtcttcaa 240  
 cttctgggca taagcaagtt tgcaccactc gtaatggctg gacagcattt gtaaaaagag 300  
 tctctatggc tagtggagca attaggagat tccaggagcg tgttttaggg cctaatagga 360  
 ccggtcttcc gagcacaact agtgacgtat ggctcttggg tgtctgctat aaaanatctg 420  
 cggatgagaa ctcaggggaa accgatactg gcactgtatt ggctgcattg caactagatt 480  
 tttca 485

<210> 5784  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-B8

<400> 5784

acgcgtccgc tccaatttct tcattttatc agcttctct cttcttttagt ttctgggtca 60  
 ctttagtttc gctctttccg aggaaaaaca aaacaaagat ttgatttttc tttttggtgg 120  
 gtttaaacag tgattttctc ttttgccctt ttattgggtc ttattgttct cctcaaaagt 180



ctacaggatt gtcggaagca aacacacttg tccatgggta tgaatttccc tctaattggg 240  
gaagaagaca catgaagcag tgaaatctct gtttggtattg aatcttatta gtctcaaact 300  
atgaatttcc gacaagagaa gtttgtaagg ttccaagatt ggaagtcgga taagacttcc 360  
tccgacgtgg aatattccgg taaaaacgag attcaaactg gaatattcca agagaacaat 420  
aanctcaatc tccgacaagt ttac 445

<210> 5785  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-C10

<400> 5785

ggtnaccca cgcgtccggt taaggatttt ggggagaaga gttgtttcag cttcgaaaga 60  
gcttactagt attcaacaat ggcggatccg accaggaacc gattctcgtc ccgatccttt 120  
tcgaactttc cggggactac aaaagggttt ctgctggggc attttaccgg acggagtcga 180  
cagaaattcg gaggtttttt ctagcaattc gatcgccatg gaagggatct tatcggagct 240  
tcgttcccat atcaaaaagg tattggccgg aggtggagag gaagcgggta agaggaacag 300  
aagcagaaac aagcttttgc ctagagaaag gattgatcgg ctacttgatc ctggttcttc 360  
ctttttggag ctctctcagc ttgcaggaca tgaattgtat gangagcctt tgccttcang 420  
tgggataatc acanggatag ggaccaatcc aagg 454

<210> 5786  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-C3

<400> 5786

agtgcccggt cangagaatt aacgggncga cccacgcgtc cgctgcanca tctgctgact 60  
cgatacatc tgctgctgca gaaattgatg aggccattga atcacatcga gcttcaatgc 120  
gcttatcagg acgcttggcg tgtttgtcac cccaatttta aacaaccctt ctcttctctc 180

gaagatgctt gcgagagatt attaccttat catgtcgtag cagattacga agcagaagag 240  
 gatgatagaa tccttgattc agacccaaca ggccaggcct tgtcccgtc tcaacaatgg 300  
 gataacaaca ttgctgcgaa agttgctgaa ttcacggcaa cgtttgagaa gcaagcacta 360  
 gcttttaaca taataactcg aaagagagct atgggagaat tcagatctga ggaaangttg 420  
 atggtagaac aagctttgct acaagatnaa aggaaagcgt tgattgaact gaaagcngaa 480  
 atg 483

<210> 5787  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-C4  
 <400> 5787

ggcccgggtca nagaattacg ggncgacca cgcgtccgta atgattttcc aggaggacca 60  
 gatgggtttg agctggtttc aaggttctgt taccacaacg gagaaatctt aatcgacgtc 120  
 tcaaacgtct cgactttgta ctgctgctct gtttttctag gcatgtcgga gaagtctgtg 180  
 ttctctaatac tcttccttca gacagagaag tttctagaag aagtgttcta tgggtcttgg 240  
 agcgacatcg tttcgtgtct caagaactgc gagcaagtgt tttccaagc agattcgtat 300  
 ggtcttgtag ataaactcat tttcgcagct ttgaacaaaa tctctcagaa ttcagacgan 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngagat ggccaagaac 420  
 acgtcagaat cagacggtag gtatatttcg cggctctgtg cttgcggaag aagcaac 477

<210> 5788  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-C6  
 <400> 5788

anttcccggg ccgacccacn cgtcnaatgg cgtccaagat tgtctcagcc atagtatttg 60  
 tgtttaacct cattgccttt ggttttagccg ttgctgctga acaaagaaga agcactgcaa 120

gggttggtgca ggacactgag gtgcaatata actactgtgt gtatgactcg gacagagcta 180  
caggggtatgg agttggagcc tttttgttct cagtggctag tcaaatacctt atcatgctcg 240  
ttagccgttg cttctgttgt ggaaagcctc tcaagcctgg cggttcacgc gctcttgccc 300  
tcattctctt cattgttagc tggatgttct tcttgatagc ggagatatgt ctattagctg 360  
gatcggtaga gaatgcatac cacacaaagt acaggacaat gttcatggac aatcctcctg 420  
attgtcaaac tctacgtaaa agcgtctttg cagcangcgc c 461

<210> 5789  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-D1

<400> 5789

cacncgtccg gtttggggga gaaaacaccc cttcggagag gagcaaagcc tctcctgggg 60  
aagaagaaga agnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnaaatta ggtttttttt gttgtttcca ttagttgtct 180  
cattgtctgt gaagagaaag gaacagagga aaatgtcaga cctagacaag caaatagagc 240  
agcttaaacy ctgcgaggct ttgaaggaat cagaagtga ngctctttgt cttaaagcta 300  
tgagattct anttgaaaga gagcaatgtt caaagagtcn atgctcctgt cactatatgt 360  
ggcgacattc atggacagtt ctatganatg aangagcttt tcanagtttg ggggtgattgc 420  
ccctaagacc agntatatt 438

<210> 5790  
<211> 464  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-D10

<400> 5790

tcanaattca aaggctgacc naccggtccg ancacgcac cgcccacgcg tccgctgtaa 60  
cattacaaa acgaaacctt ccttgtggat tcccacttct ttcttctgtt ttcttcttcc 120

tcttctttaa attggatggt ttgggcaaga aacagagaga aacacgttaa tttgagagtt 180  
 tgtcattgaa tatttggttt gcaatggaaa gagattttct gggtttgagc gacaagcagt 240  
 atctaagtaa taacgttaag catgaggtta acgatgatgc tgtcgaagaa cgagggttaa 300  
 gtacgaaggc agctagagaa tgggggaagt caaaggtttt tgctacttca agtttcatgc 360  
 cttcttcaga tttccaagga aggctaaagg cgtttccggg gtgcatacca attggggatn 420  
 aagtttctgc cggccaatgt tttccgcaga tgccaatttg gngg 464

<210> 5791  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-D2  
 <400> 5791

cccggtcana gaattaacgg gncgaccac gcgtccgaaa aaaaggaagg cgaatcgtag 60  
 acgggaaatt gttcttttgc cgctctcgga cgaatcgctt gtttccattt ttggtgatat 120  
 aatacaaata gtgtattagt agtttgattc tttcaccac ggtgtcggta cgattgaagc 180  
 tcctccctcc aagagccttc gtacagagac gtttctgctg aaatttcaag caagtgtgtt 240  
 tgtcagatgg agcggtatga agtcttgagg cagatcgga aagggtcctt tggctctgct 300  
 cttcttgta gacacaaaca agaacgcaag aaatacgttt tgaaaaagat tctctctgcc 360  
 cgccaagtct gatagggctc gacgatcagc tcatcangag atggagctca tttctactgt 420  
 ccgcaatcca tttgttgctg agtacaaga ttcattgggtt gaaaagggtt gccatgtgt 479

<210> 5792  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-D3  
 <400> 5792

gcccggtcan agaattaacg ggtcgacca cgcgtccgcc cacgcgtccg ggctggaaac 60  
 tggctcattg ggggtgatct tgaggttctt gagccagtga agtacaatga tgggcttgat 120

cgtttcaggc tttegcctgc tgagttacgt aaagagttgg agaagcgtaa tgcggatgcg 180  
gtgtttgctt tccagctgag gaatcctgtt cataatgggc atgctcttct tatgactgat 240  
actcgtagga gacttcttga gatgggttac aaaaacccta ttcttttgct tcatccgtta 300  
ggtgggttta caaaggctga tgatgttcct ttagattgga ggatgaagca acacgagaag 360  
gttctagagg atggtgttct cgatccggag actacagtgg ttctgatatt ccccgtcanc 420  
tatgcattac gcctgggtcca aaccgaaatt gcaattggca cgccaaaggc ctagaatcca 480  
atgcctgg 488

<210> 5793  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-A3

<400> 5793

ctttacgctn ccaggtgccg gtcaaagaat taacgggtcg acncacgcgt cggccccaac 60  
tctcttttct ctgtctttct ctccctgcag ttaccggatt cctccactcc ggctagatct 120  
ccccgttcac cgccgatgac agaacgaatc agagcaagag gaccagatc atcctctgtt 180  
aactctgttc ctctgattct tgacattgaa gacttcaagg gtgatttttc atttgatgca 240  
ttatttgga acctggtaaa cgacctcttg ccgtctttcc tagacgaaga agcagattct 300  
ggggatggcc atggcaacat tgctggagtt gatggtttga caaatgggca tttacgtgga 360  
cagtctgctc ctttgtcctc tgctcctttt tttctgaag tagatggtct tttgtctctg 420  
ttcaaagatg cttgcaagga gttagttgat ctcggaagca agttgatgga agggtaata 480  
cactaaagga a 491

<210> 5794  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-003-Q1-E1-F7

<400> 5794

nggccgggtca aaaataacgg gtcgangcac gcgtccgaac gcncccatct acaatgaccg 60  
 agaacgcctc cagatatacc tctctgatgc ggggtattcta gccgtctgtt ttggtcttta 120  
 ccgttacgct gctgcacaag ggatggcctc gatgatctgc ctctacggag taccgcttct 180  
 gatagtgaat gcgttcctcg tcttgatcac ttacttgcag cacactcatc cctcgttgcc 240  
 tcactacgat tcatcagagt gggactggct caggggagct ttggctaccg tanacagaga 300  
 ctacggaatc ttgaacaagg tgttcacaa cattacagac acacacgtgg ctcatcacct 360  
 gttctcgaca atgccgcatt ataacgcaat ggaagctaca aaggcgataa agccaaattc 420  
 tggggagact attaccagtt cgatggaaca ncgtnggtat gtanccnatg tatangggaa 480  
 gcaaaaaggag 490

<210> 5795  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-F9  
  
 <400> 5795

gctgccaggn accgggtcaaa gaattnccgg gtcgaccac gcgtccgcgt atagatgcga 60  
 atgggtctca ttagaccga ctcaagatcc gatttcaaca accgggttta aaatcttaac 120  
 cgattgggggt tacggacgga tctacacaac agtcgtcgtt aactgtactt tctcatcaat 180  
 ctccgccgtg aatccacaaa actccggtgg aactctcatc ctccacgcca ccaccggaga 240  
 tccaactctc aatctcaccg attcaatctc agtcctaacc gaacctccca aatccgtcga 300  
 ttctgatctc tataactcca cgaagaagac gaagaagtac gattatctct attgcggatc 360  
 gtccttatac ggtaacctaa gtccgcaacg agttagagaa tggatcgctt accacgtag 420  
 attcttcggt gaacggtcac atttcgtgct acacgacgcc gganggattc atg 473

<210> 5796  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-G11

<400> 5796

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ggttaacttg aatcttgact ggagagagggc tgttccgcat cctgatgacc gtgttgagta 120  
tgagttgtgg actaatagta atgatgaatg tgggggttaag tgtgatatgt tgatggagtt 180  
tgtgaaagat tttaaggagg cggcgcagat tcttgagaaa ggccgggtta cgcagtttag 240  
acctcattat attacttggg attgtcctca tgctttcacg ttgaagtcga cagtgttaagt 300  
ctcagtgtat caataaagga aggtactgtg ctctgatcc agagcangac tttagctcng 360  
gataccatgg aaaaagatgt tggtcntgga aaaacntgag acagcctttg tgtttacaan 420  
ggtggcgaat gaaaccggcc aaaccttggg tcnngtggga tatgttctg attccana 478

<210> 5797

<211> 448

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-003-Q1-E1-G5

<400> 5797

acgcgtccgt gcgtctagga atcctttacg aattccaaag attacagagt accttgagca 60  
aaaatgttac aaagaattgc gaaatggaaa tattggttca gtgaaagtcg tcttatgcat 120  
ttataagaaa ctgctttcat catgtaagga gcagatgcct cttttttcgt gtagtttgct 180  
aagcattgtc agaactcttt tggagcaaac aaaagaggaa gaagttcaga tcttgggttg 240  
caatactctt gtcgacttta taagtttaca gactgtgaat tcgcacatgt tcaacttaga 300  
aggtctaate cctaaacttt gtcaacttgc tcaagaaatg ggtgatgatg aaagatcact 360  
ccaattacgg tcagcaggaa tgcaggcttt ggcattcatg gtatctttca ttggtgagca 420  
ttcccaacta tcaanggact tggatatg 448

<210> 5798

<211> 491

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-003-Q1-E1-G8

<400> 5798

gtgccccgtc aaaaattaac gggccgacnc acgcgtccna aatttttagtc gaagaaacaa 60  
aaaaaaatgg cgacggtaca attgtccacc caatttagct gccaaaccag agtttcaatc 120  
tcaccgaact ctaaattctat ctccaagcct ccgtttctgg taccggtgac ctcaattatt 180  
caccgccccga tgatctccac cggaggaatc gctgtttccc cccgtagagt tttcaaagtc 240  
cgagccacag atacgggaga gataggatca gctctattgg cggcggagga agcaattgaa 300  
gacgtggaag agacggagcg gctaaagaga tcgctcgtgg attcgttgta cggaacagat 360  
cgaggtttaa gcgcacgag cgaaaccaga gctgaaatcg gagatctaata cacacagctc 420  
gagtctaaga accctactcc agtccgacg gaagctcctt tccttctcaa agnnaaatg 480  
gattctcgcc t 491

<210> 5799

<211> 475

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-003-Q1-E1-G9

<400> 5799

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gtctacaggc tcaaagtgtg ctttatatgc aggataatct ggatgctgag ccagaggttt 120  
tgcttgatcc gaacactctt agtgatgatg gaacagtggc cttaaacacc ttttctgtca 180  
gcgaggatgc taagtacttg gcctatggtc ttagttcaag tggtagcgac tgggtgacga 240  
ttaagctgat gaaaatcgag gataagaaag tggagcctga tactttatca tgggttaagt 300  
ttaccggcat tacatggacg cacgacagta aaggattttt ctatggtcgc taccagctc 360  
ccaaagaagg agaggatatt gatgctggca ctgagactaa gtctaantct tatcatgagc 420  
ctgtattaac atttcaantg ggancggatc aatcctcaag atnccttaag cctgg 475

<210> 5800

<211> 458

<212> DNA

<213> Arabidopsis thaliana



<223> Clone ID: LIB23-003-Q1-E1-H1

<400> 5800

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ggacttgtca atggcagacg tacctggata cctgcgcact tgtttggata tggggaagat 180  
agctttctta gcaatccttg tatctacagg gatttgtgtg cagattctgg cttgtgctct 240  
gttcaataac tgggtggccaa tgctaagtgt tataatgtat gtgctcctcc caatgccttt 300  
gctcttcttt ggtggatcag acagtacatc tctattcaac gagtcagata atagttggat 360  
caatgcagcc aagttcttga ctggtgcac agcagttgga agcgtcgcga taccatcgat 420  
tctaaaacac gccggactca tcggttgggg cgcattaa 458

<210> 5801

<211> 485

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-003-Q1-E1-H12

<400> 5801

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taagatacca ctcacaaaaa acttctctcaa aactaacaaa tggatactaa taaagcaaaa 120  
aagcttaaag ttatgaacca actcgttgaa ggccatgact taacaactca gcttcagcaa 180  
ctcctctctc aaccgggtc cgggtctagag gatctagtgg ctaaaatctt agtgtgtttc 240  
aataacacca tctccgttct tgataccttc gaacccatct cctcctctc atccctcgcc 300  
gccgttgagg gatctcaaaa tgcttcatgt gataacgacg gcaagtttga agattccggc 360  
gatagtcgga aaagattggg acccgттаag ggtaaaagag gatgctacaa aagaaaaaag 420  
agatnggaga cgtgtactat agaatcgact atacttgagg acgcattttc cttggaagga 480  
aatat 485

<210> 5802

<211> 459

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-003-Q1-E1-H2

<400> 5802

acncgctcng atttaacagg aattttgcgga attttgatta tatcagtgag tagaagaaat 60  
gagcgcagtc tcgggtgtaa tctcgaggca agttttgcct gtttgtgga gcctttgtat 120  
tctttgcct gcgcttcgtg caaggtctag acagcctgtg aagaggtaca agaagctcat 180  
tgctgagatt tttcctcgta atcaggagga aggcataaat gatcgaaaga taggaaaatt 240  
atgtgagtat gctgcaaaaa acgctgtgcg tatgccaaag atatcagatt ccctggaaca 300  
tagatgttac aaggaattga ggaatgagaa tttccactcg gcaaagataa ccatgtgtat 360  
ttacagaagg cttctggtca cttgtaagga gcaaatacct ctatcttcta gtggtttcct 420  
aaggacgtgc aagctccttt ggatnaaaact cgacaagaa 459

<210> 5803  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-003-Q1-E1-H6

<400> 5803

aaaattaaac gggncgaagn cncgctccg cgcaaatct caacgaagct cgaaaatgga 60  
ttcacgaacc aaggggaaga cggatgatga agttggtggc gatggcggtg ccgtcataac 120  
actcatcaat cctcccgta attctctatc cttcgacgtg ctatacaatc tcaaaagtaa 180  
ttacgaggag gccttgagca ggaatgatgt taaagctatt gttattactg gtgcaaaggg 240  
gaggttctct ggtggctttg atatatctgg ttttggtgaa atgcagaagg ggaatgtcaa 300  
agagccaaag gctggttaca tttcgattga catcataacc gacttgcttg aagctgctag 360  
gaaaccgtct gtcgctgcca ttgatggact tgccttgga ggaggattag aacttgctat 420  
ggcttgcacat gctangatat cagctccctg ctgcacagtt aagcttcng aactgcaact 480  
tggt 484

<210> 5804  
<211> 476

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-003-Q1-E1-H9

<400> 5804

gctgcccagg naccggtcaa gaattnccgg gtcgaccac gcgtccgggc gtttggtttg 60  
atcggaagag ttgttggaac caaatcatca cgattatcca cggcggcgcg attgattccg 120  
gcgcgatgga catcaacagg atcagaagca caatcgaaag cttcaaccgg cggcggagga 180  
gcgagtctga agacgtttca gatctatcga tggaatccag ataatcctgg aaagccagag 240  
cttcaagatt acaaaatcga tctcaaggat tgtggtccaa tggttctaga tgctttgatt 300  
aagattaaga acgagatgga tccatcgctc actttccgtc gctcttgccg tgaaggtatt 360  
tgtggttcgt gtgctatgaa cattgatgga tgtaatggtc ttgcntgttt aacgaagatt 420  
gaatctggat ctaaagagac gacgattacg ccgttgcccg catangtttg tgatta 476

<210> 5805  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-A1

<400> 5805

acgcgtccgc tctgctaaag tttcagatct tgggtcttcgg tctattggtc gtagctgccc 60  
ttctctcggg tctctttcac tgtggaacgt ttctaccatt actgacaatg gacttttga 120  
gattgctgag ggttgtgctc aacttgagaa gcttgagctg aaccgctgct ctacaatcac 180  
tgacaagggg ttggtagcta ttgctaagag ctgccccaac ttgactgagc tgacattgga 240  
ggcttgttca agaattggag atgaagggtt tgctagccat tgcaagatcc tgctccaagc 300  
tgaagtcagt ctgatcaag aactgtcctc ttgtcagga tcaaggaatc gcctctctac 360  
tgtctaacac cacctgttcc ttggcaaac ttaangcttc agatnctgaa tgtcactgan 420  
gttgccnct tgctgttgtg gggtaatta acg 453

<210> 5806  
<211> 473

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-A2

<400> 5806

caggccggtc aaagaattaa cgggtcgacc cagcggtccg gataattatg aacaaaggcg 60  
gtggatccgg tggcggatcc ggtggaggaa gcggtccaac ggccgccgcc gccgccgagg 120  
ctttacagaa gcaaaaggcg ttgttacaga gagtggagac tgacatcaca tctgtcgtcg 180  
ataacttcac gcagatcgtc aatgtttcaa ggggtgagtga tccgccggtg aagaactcgc 240  
aggagacata catgatggag atgcgagctt ctagaatggt tcaagcagct gattctcttt 300  
tgaaactcgt atcagaactt aagcaaacag cgatattttc aggatttgca tcactaaacg 360  
atcatgtaga acagagaata gaagagtttg atcaagaggc cgagaagaca aatcgattgt 420  
tggttagaat tgctgatgat gcactcgcca atcttaaaga actcgantcc act 473

<210> 5807  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-003-Q1-E1-F6

<400> 5807

gggncgagggc ccgcggtccgt tcaccaactc ttatataccan gcctctgtaa cgttcgatca 60  
tcttgtatct catttcaacc actcattggt tttagtttgt ttacgaaga atcaactatg 120  
gcgacgaaga gaagcgttgg aactttgaag gaagcggatc tgaagggaaa gagtgtgttc 180  
gtgaggggtg atctcaacgt tcctttggat gataactcta acatcaccga tgacancagg 240  
attcgtgccg ctgttccac catcaagtac ttgatgggta atggatctag ggttgttctc 300  
tgcagtcact tgggccgcc aaaagggtgt actcctaagt acagcntaaa gcctcttgtg 360  
cccagattgt ctgaacntct tgggtgtgan gttgtnatgg canatgactc caantgggtga 420  
ggaagtccaa gaagttgggt gccgggacta cccgaaagtg gn 462

<210> 5808  
<211> 472

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-A10  
 <400> 5808

angtgccggt caaagaatta ncgggtcgac ccacgcgtcc gatttgaaca agtgtgattg 60  
 tttgtgacac agatttggat cggcgaatct tttgatgata aagattactt catttctggt 120  
 tattctcgaa gagtagaggt ctcaaaagaa atggagtcta aggaaattag atcctcctct 180  
 gtctttgaga gatcgatgcg ttttaatgga ctctttcaag ataagctgag agttgttgag 240  
 aaacagaatc aaccaccaaa acggtttaac caaaaggagt ctaattctgg tttcacagtg 300  
 attccaacga agcaactttg tcgagtttat ctccagaaac cgaatttggt ggcttccaag 360  
 ggtataattg atgcactagc taagcctcct catangattt ttgggtagga gatatgatca 420  
 gcaaaacttc aagtcaaagc tgagacatcc ttcacacaac aagtntgatc cc 472

<210> 5809  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-A3  
 <400> 5809

acgcgtccgc ttcttactca acttttgctt caggcttcgt ctcttttgca atttttgagt 60  
 tagccaagtg ctcaaggag atacataata cctgaagatg tccaaggcaa gtgatgccgt 120  
 cagagaacca ttggtggaca agaatatggc tggatcaaaa ccagaccagc cgtggatggt 180  
 ttatctcagc acattcggtg cggctctgtg ttcttttgcg ttcggttctt gtgcgggata 240  
 ctcttcacct gctcaggctg caattaggaa tgacctttca ttgactatag ctgagttttc 300  
 actctttggt tctttactaa cttttggcgc aatgatcggt gctataacaa gcgggcctat 360  
 agctgattta gttggaagaa agggggcgat gagagtttcc tctgcatttt gtgtagtcgg 420  
 gtggctagca atcatctttg ccaanggagt agttggcc 458

<210> 5810  
 <211> 474

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-003-Q1-E1-A5

<400> 5810

gggtcgcgc acgcgtccga aaaaaaatg ggagaaaacg gagccaagcg atggaacttc 60  
ggagctaacg aggtcgtcga acgatctaac tcaattacca ttctgtgatta ccttaacacc 120  
ttaatcaatt gtctcgacgg tggatgatga agaccgcgtc tcccactagg tcacggcgat 180  
ccttctccgt tcccgagctt tctaccgat caagccgctg ttgaagccat ctgtgatgct 240  
gtccgttcga ccaagtttaa caactactct tcttcttccg gtgttctctg cgctaggaag 300  
gctgttgacg agtacctctc tagtgatctc tcttaccaga tatcaccaaa tgatgttcat 360  
atcacagctg gttgtgtgca agccattgag attttgatat ccgctctcgc aattcctgga 420  
gctaacattc tgctacctaa gctacttac ccgatgtacg aatccccgag cngc 474

<210> 5811  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-003-Q1-E1-A7

<400> 5811

taacttccgg tgnccgtcaa aanattaacg ggtcgacgca cgcgtccgaa aagccataac 60  
caagattcgt caagaaatca acacacaact atctccaaga accaatgatt ttgattcatt 120  
caatgctcaa gagttaaaca agttggtgta tgtacatgga gcattgtgtg aagcccttag 180  
gctatatcca ccggttccat ttcagcaca gtctcctaca aaatccgacg ttcttccaag 240  
tggaacacaga gtcgatgcga gttcgaagat tgtgttctgt ctttactcat tagggagaat 300  
gaaatcagtt tgggggagaag atgcacgga atttaaaccg gagagatgga tttcagagag 360  
tggaagggtg attcacgtgc cttcttttaa gttcttatcg tttaatgccg gtccaaggac 420  
ttgtttgggg aaagaagtgg ctatgacaca gatgaagaca gttggctgtg aaaanta 477

<210> 5812  
<211> 489

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-B3  
  
 <400> 5812  
  
 tgtgaccgcc cggtcnagt cnnaannccc gggncgaccc acgcgctccgc ccacgcgtcc 60  
 ggcttgtaat cgttggctat tgacaggaac accaaccctt aacacaccaa atagccagct 120  
 ttcacatatc caacctcttt taaagtttct tcacgaggaa gtctatggag aaaatccaaa 180  
 gttttgggaa gctggcatcc ttagaccatt tgaagcagaa atggaggagg gtcgtttgcg 240  
 tttacttcag ctgcttcaga gatgcatgat aagctctaga aagaaagatc tgcagatgat 300  
 tcctccgtgt atcaagaagg tgacatacct taatttcctt ccagggcatg caagaagcta 360  
 caatgaacta gtggagacag ttaggcgtaa tatcttatta gctgattgga atgatncgtc 420  
 tcatgtagaa agtctgctta actctaaaca gtgganattt cggagcatta ccattagtaa 480  
 tgtcagacn 489

<210> 5813  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-B5  
  
 <400> 5813  
  
 nccggtcaaa aattaacggg gncgacgcac gcgtccgagc gttcgttgtg aaaccataga 60  
 tccaggtgaa ttctggaaaa catcttgaag cgaaatcgag acatcgttgg aggatcaaaa 120  
 cgtaattcgc attgatcgat gaatcctaga agggagcctc gtggtggtag aagttctctc 180  
 tttgatggca tcgaagaggg aggaattaga gctgcttctt cttactctca tgagatcaat 240  
 gaacatgaga atgagcgtgc cttggaggga ttgcaagata gaggcattct cttaaaacga 300  
 ctatctggcg atataaatga agaggtcgat actcataacc gcatgcttga cagaatgggc 360  
 aatgatatgg attcatcaag gggatttctc tcaggaacca tggancgctt taaaacggtg 420  
 tttgagacaa agtcaagccg aagaatgctg acgctcgtgg catcgtttgt tggtttattt 480  
 ccaagtcata tact 494

<210> 5814  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-D1

<400> 5814

taactntccg cgcgacggta aaaggtcatg naattcccgg gccgaccac gcgtccngta 60  
 taccacaaaa cctcaaaatt gtaatttatt agattatcgt gatggcctta gctaaagagt 120  
 taatgggtta tcctctcatc acagaaagggt catcacttgt ctcgtcggcg tcgcatttca 180  
 agaagaggac acagtcaaca cagttctcga tcaacccttt tgaccggaga ccaagaaaaa 240  
 ccaaatccgg cgtcgttgca gccatcagcg aggatttggg caaaacgctg cgttttttcca 300  
 caacgaccgg agacagaaag agcgaanagg aggagaaagc ggcggtgaag ttcanggtga 360  
 gagctgtggt nacngtgagg aacacngaac aaggaggatt tgaanggaga ctcttgtaaa 420  
 gcanttggat gcctttgctg atnnnattgg ncgaaacatt gtcnnggagc ttatcatc 478

<210> 5815  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-D6

<400> 5815

cggggtcgag gcacgcgtcc gccactttaa acccttgtct acgctggtcc gagtccagag 60  
 tcctctactt tgacagtctc cctccatgtc gtcgttgtgt gcatctaatt gctatccttc 120  
 atcttcttct atcaatctct tctccaacaa caacaacca actaaaccct ttcttctctc 180  
 cctcagattc gcctcctcca atttctcttc atttggtgct cctctcaaatt tctctactac 240  
 caatcacgtc cttagtaact ctcgtttctc ttcgaaccga atccaaagac gccttttttt 300  
 gtcccgatgc gtttcagaag aatctcagcc gtctctttct atcggtaacg gcggctctga 360  
 agagagagtg aatgttcttg taattggtng aggagggaga gaacacgccc ttgcccacgc 420  
 cttgaangcg gtctccgtcg tggtaagtcc ggng 454



<210> 5816  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-E11

<400> 5816

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ctttttgttt cgtctcagtc gtcgtcatca tctctgacag aacaagtttc gagattggat 60
attgacgaca acgatatggg acttggaggt agtgaaacaa tggaatgcaa gtgtggtatg 120
cctctgtgta tctgtgtagc tcctcccaaa tcaactgata aaccaaacc acctgctacc 180
attgctcctg tggttcttcc tcagttgaag tcagaggctt cagcaaaaag taaagggtcc 240
acttccagca gcaatgctag atcagctcta aatgctggac tagacacccc ccaaagagac 300
tatgaagcca gtggggaggg attaagagaa gcgattaaga atggtgacag tgctggtgcg 360
aaaaaacttc taaaaagang gcgtanaatg caagattacc gaagacagg 409
```

<210> 5817  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-E8

<400> 5817

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attaacgggn cgaccacgc gtccgcggca aacacgaacg ggtttacgta gaccgtcaaa 60
cgctcctcgc tccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnn nnnnnntctc atcgatcact ctctccaaga tctattcacg catcgctcga 180
agaattttcg ctccgacga cgtttctctc gtctgatttt gtctccgaac atcctaccta 240
atcgatttcg gtgctggatt tgaatccggt gaactgaatc tgacaatttc gttcccggag 300
gtgtttaaaa atggccggga tcttgaataa attgcggaat ctagatgcat atcctaagat 360
caatgaagat ttttacagcc gtacattatc cggcggagtt atcactctcc tctcctccgt 420
tgttatgttc cntctcttcg tctccgagct ccgctcttan etc 463
```

<210> 5818  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-E9

<400> 5818

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gaattaacgg gcaaaagaag ccaaaanttc tttttgcaga tgacctaca aacgaaactt 60
tagaagctgt cccaaatata ggtgagattc actgatcgat ctctttttt ttttgctact 120
tatatccacc aatttgcaaa ctcttatggt ttattcagaa gaagccaaca atgaaagaaa 180
ggcaccaaca gagataaaga agaatggaga aagtagtgag aagaagagcc cagaactggt 240
ttgtatggag gaggaacttc aaaagtggc agctgaatca tttattgatt taactgcttc 300
tggtgagcct ctcatatctc aaataatatt ggattgattg caatattttt gaatttagat 360
acatacatat atgcaaattg tttaggttac ataagattcc agttctgcct tgtcataggt 420
gatcnttgag ttanggtatc agttatggga aacatgtngt 460
```

<210> 5819  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-F11

<400> 5819

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ggncgccgta cagaattacc gggncgaccc acgcgtcanc ccacgcgtcc gcggacgcgt 60
gggttcacaaa acaaagtcga ttacgctaga atccatggtc acgacatctt ctacagcaat 120
tctcttcttc atccgaagat gaattcgtat tgggcgaaac ttccggtggt taaagctgcg 180
atgcttgctc acccatttat ggattgaagc tttagagaga aaatgggtga tgaggcagag 240
atcaaggaac atttaaagcc acaagcttca tctgaaacaa tagacaagaa acataatgtg 300
aaaggaaga ggttatggca cgaaagtcaa gtatcaattg gtggagtttc attcattgcc 360
tgcttattta agagacaatg agtacatcat tggtcattac cgattcggaa tggcccgatn 420
naacagantc ttcnnancat ctttaccatt cntaatggag acntttgagc gttttgga 478
```

<210> 5820  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-003-Q1-E1-F3

<400> 5820

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acgcgtccga ttttttctaa attttaatct tttgtgttnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnggtac 120
cgtcgatttc ttctacgag ttcgaaatta ggggtttttt cttcttctta gggctgattt 180
tgaggtcgag tagtgggttc ttaacgaact tattcggtga atttcttttag ggttttcttt 240
gtggtctagt ttcatagaga gattagaagt ttggttatgc tattgaacga tgtttcatgg 300
acaagggttt tcgagaaacc gttgtaatgt tgtggcagtt gtttctggag cagagctttg 360
cgatactaata aaccagatag atggaacttc tcatcaaccc aaataccctt ttccagatct 420
ctcttcttca gggcgtctca agtttcaagt actgaa 456
```

<210> 5821  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-003-Q1-E1-A1

<400> 5821

```
acgcgtccgt agtcatcttc ttcttctctt gtctcaattc ttctctctct cggatccatt 60
tttagaggag tctagtttct tacttgaaca tagacatgga atcaactaat aactgacaac 120
caagaggctg ttcttttcaa atgattggta gtagttatat tatgcttgga cagtgccatg 180
atgggcatct gtgagatgaa aagctgctgc tcatggcttc ttttgatctc gttgctttgc 240
tcactatcta atgaaagtca agcgattagt cctgacggcg aggcgcttct gagcttcaga 300
aatgcagtta ctagatcaga tagtttcatc catcagtgga gaccggaaga tccagatcca 360
tgtaactgga acggagtgc atgtgatgca aaaacgaaa gagttataac cttgaatctt 420
acttatcaca aaataatggg aactttacct cctgatatt 459
```

<210> 5822

<211> 450  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-H11

<400> 5822

acgcgctccgc ccacgcgtcc gccacgcgt cgggtgtatt caatgagttt atcgagatta 60  
taaattaaat tgttccccgg gttttttgat aataaaaagt tacacgcttt tggttaaaaa 120  
tccattgcat tataaaattc aattatgata caatgccacg tcaactggacc acaatgttgc 180  
cgtacgttat attgttgccg gagtaaggta cacgtcgtca cgggtgtcagg ccgtttcttt 240  
aaagagttgt caacgattta acggcgcgtg cgtctcacgt gacactctcc ttgtttgttg 300  
gtgatttggt cattgattac agaaccaatc gtcggtacct accaataacc gtacgatggt 360  
gtatggcaat cctcnttggg attactancg gntcaaccgg gtgggtccac tggttacgcc 420  
tcaatcaanc tccgaacgtt ggtcgaaacc 450

<210> 5823  
<211> 451  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-H2

<400> 5823

ccacgcgtcc gcccaatctg aagatcaatc ataaccttaa accatctctc ataattttag 60  
tatttctatt ctcaccacca aaactcgttg atacatcaca ccccaactgt tgttactcat 120  
gtcctacaga tcgatttacc gcactcttcg accggtacta tcatcttcgg tacaatcctc 180  
cggtttagga attggaggat tcaggggaca tctcattagc cacttgccca atgttcggct 240  
attgagctct gacacgtcat ctccggtgaag tgggaataac cagccagaaa atcctatccg 300  
aacggccgat ggtaaagtta tatccactta ttgggggtata cctcctacta agatnactaa 360  
accggacggt tcagcttgga agtggaattg ttttcagcca tgggattcat acaaaccgga 420  
tgtgtccatt gatgtaacta aacatcataa a 451

<210> 5824

<211> 490  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-H4

<400> 5824

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agtagcaaac ttncgattc cttgattcgt gggaaaaaga aagtctagat ttttgtggat 120  
tttgattttg tgattccgtg attgtatgaa cttgagccgt tttgcttcga gattaagaat 180  
ggcggaagaa atctcaaaga cgaaggtggg atcttcttct actgcttcgg tggctgattc 240  
atctgctgct gcgtcggctg caacgaatgc ggccaaatca agatggaaaa ttttgtggcc 300  
taattcgtc cggtggattc ctacgtccac cgattacatc atcgccgccg agaaacgtct 360  
tctctccatc ctcaagacgc cttatgtaca agagcaagtc agtattggtt cangaccacc 420  
aaggttctaa aatcangtgg tttangtcta cgagcaatga gtcacgttac atcaacactg 480  
ttacatttga 490

<210> 5825  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-H5

<400> 5825

acgcgtccga gattatctgt atttcaagtt tcatgagcgt ttgccaccac aacattgtct 60  
tttcgggggtt ttagtcatac ttaatggctt ccaattcgga gaaaaatcct cttctttcag 120  
atgagaaacc caaatcgacg gaggagaata agagttctaa gccggaatca gcttctggga 180  
gttcaacttc atcagctatg cctggcttga atttcaatgc ttttgatttc tctaatatgg 240  
ctaagtattc tcaacgattc tagcatcaga gaaatggctg agcaaatagc taaagattct 300  
gcgtttaacc aattgggctg aacaagcttc aagagatcaa atcctaacgc tggcaagaan 360  
gtgggttccc taacttttga ttctcaacan gtatgtcaat acaatgcaac aaggttatgc 420  
ataaccnnga gtttaagaca tggccgagaa 450

<210> 5826  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-H7

<400> 5826

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cagatgtttc ntacaatctt cancagattg cttggaaaag gnaacagcaa atgccacctc 120
aaaggnatta caattctgat caagttggga aatttggagc aaggagatna ngggctgggg 180
ttaacaaagc atcatggttg tgggtggggg taaaaaggag ctgattccat ggcgagaaat 240
gggcataatt tcaatggcgt taacagtgat cgtgttgagc atcgggagga agctaaagtt 300
ggcaagtgat gttaaggcat tgtcctgttg cagaagagaa agagagatgg taacgaaaaa 360
ccgagggagt gataataaaa gttgagaaaa aatttgggaag aatctgaaac tcaagaggag 420
atantgaaag aancataagt gttaactcng ggttccaaaa g 461
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<210> 5827  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-H9

<400> 5827

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gttgceettgc ntacggctcc ggaatcccag gtcgaccac gcgtccgcga cacactccaa 60
aactcataaa tctatctgat gcgaatttga ctaactcttt cgtaattcag gatcttacta 120
caaattctta actcaccaat cttcttctta ttcaaagatt agagagaaaa tggacaacga 180
gctgtttatg aacacagagt ttccaccacc gccggagatg gcgacgcatt tcgaacacca 240
acagtcttct tcatcggcca tgatgcttaa ttgggcttta atggatccaa atccgcatca 300
agattcttcc tttttatggg aaaagtcaac ggaacaacaa caacaacaaa gcatctttga 360
ctctgcttta agctcattag tctcatcacc gacgccgtca aattccaact tctccggcgg 420
tgggcngtga cgggtttctc atcagagaac tcatngggaa accttggnaa catcggtaaa 480
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<210> 5828  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-A1

<400> 5828

acgcgtccgc ccacgcgtcc gcggacgcgt gggaatcaag atgggagtga tgagtttgag 60  
 caagacgatg gtggtggtgg tattacaggt gatgatattg ttgggacaag agattggtaa 120  
 agtgctgctg actctataca aagttgggga cttggacgct tggggcatcc caattgatgc 180  
 taaagtctat tccaaatggc ccaaactctca ctctttcaag atcggtgact ccctcttgtt 240  
 cttgtacca ccaagcgaag actcactgat tcaagtgaag ccctccaatt tcaagagctg 300  
 caacacccaaa gacccaatct tgtacatgaa cgacggcaac tctctcttca anctcacca 360  
 aaacggaacc ctatactcac aagtgcacaaa cccgggcact gtnccaaagt tccaaaagct 420  
 cctantctcc gtcggaacct aatcccgccc aaagcaaaag g 461

<210> 5829  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-002-Q1-E1-A10

<400> 5829

acgcgtccga tctatattag tgatggcttg tttttatgta tgtgaagtgc tccgctcccc 60  
 tatataggta tggtgaggat gcaaaggtgg caagttctac ttgatctat ttttctcgaa 120  
 attttcatct acagtcctct tttcattgga gatgtctcta tttctggttc tatgctctgc 180  
 attttccat ggtttaaatg ctaatcactt cggctcgaga tctactcttt ctacatgaat 240  
 tcattatctt catataggaa ttgggatgat gctaggacga ttctgtttcg acctgttcgc 300  
 ctaagattta ttggcaacga gggatggatg taatcagctt ttcttccctt atctgttttc 360  
 ctttctggt tatgtaatct gcacttctc ctatggtaat ctctctgctt cagatgaaat 420  
 cattaatctt cacat 435

<210> 5830  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-A11

<400> 5830

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tgcaaacaaa gacagtgtta agaagaaatc catctctcgc tcttctcgtg ctggtattca 120
gtttccagtg ggtcgtattc atcgtcaact caagcaaaga gtttcagcac atggaagagt 180
tggtgccact gctgctgttt aactgcatc aattctagaa tacttgactg ctgaagtact 240
cgagttagct ggaaatgcga gcaaggatct caaagtgaag agaattacac caagacattt 300
gcagcttgca atcagaggag atgaggaact tgacactctc atcaaaggaa ccattgcagg 360
aggaggtgtg attcctcaca tccacaagtc ccttgtcaac aaagtcacca anggattgan 420
tttcgctcct ccgaatccta agtccc 446
```

<210> 5831  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-A12

<400> 5831

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acgcgtccgc ctctctctcc aatggcttcc ttatccttcg tttcctcttc tcaccttacg 60
ctacgcactc ctctatttgc cctacgcagc actggctctt ctctcgaac ctccgtttca 120
ttctccgtca aggctcaatc cgtcgcgctt tcacaggacg atttgaagaa gctcgcggcg 180
gagaaagctg tggaggcaat taaacctggg atggttctag ggctcggaac cggatccacc 240
gcagctttcg ctgttgatca gatcgggaaa ctactctctt ccggtgaact ctacgatatt 300
gtcggtatcc caacgtcgaa acgaacggag gaacaagcac ggtcgttagg gattcctctt 360
gttgggttaa atacacatcg anaatcgatn tcgcctaatt gacgggagca aaacgaagga 420
ctcccggtgg gaagttnngt taaac 445
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<210> 5832  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-A8

<400> 5832

acgcgtccga agaagaccaa aaggactgct cctaagtcg atgatgtcta cctaaagctt 60  
ctcgtcaagc tttaccggtt tttggtgagg agatctaaca gcaacttcaa tgctgtgatt 120  
ctgaaaaggc ttttcatgag caaagtcaac aaagctcctc tttcactctc taggcttgta 180  
gagttcatga ctggcaagga tgacaagatt gctgtgttgg ttggaactat cactgatgat 240  
ttgagagttc aagangattc ctgccatgaa ngntactggc cttgaagggtt actgagaagg 300  
gctaaggcta agaattnana aanctgggtg gagaatgcta aactttnacc aacttgcccc 360  
caaancncc atngggaaaa gannnaattt ttcttaangg ggccaaanaa nccccnctgn 420  
ancaattgan ncatttttcgg acccnggcc cgggg 455

<210> 5833  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-B10

<400> 5833

acgcgtccgc gcnattttct gtttgcatac acttgtatat atttatatta acagtccaaa 60  
attcttcgaa attgtcccg a gctttgagca tataaaaaat gtcttcgata atccatggag 120  
ctggagctgc tacgacgacg ttatcgacgt ttaattccgt cgattccaag aaactcttcg 180  
ttgctccttc tcgcacaaat ctttcagtga ggagccagag atatatagtg gctggatctg 240  
atgcgagtaa gaagagcttt ggttctggac ttagagttcg tcaactctcag aaattgattc 300  
caaatgctgt tgcgacgaag gaggcggata cgtctgcgag cactgggaca tgaactattg 360  
cttttcgagg ctctcagga aggtctggaa agaagagatg gncaagaaga ttcacatgta 420  
agtggttaagg gtgaaaaa 438

<210> 5834  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-B11

<400> 5834

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aatgaatcc gaaaatcgca gattttggat tagctaaact ctttgactca ggccaaacca 120  
tgacacatcg attcacaagc aggattgcag gaacttacgg atatatggct ccggaatacg 180  
caatgcatgg acaatttctt gtgaaaacag atgttttcag cttcgggtgta ttagtcattg 240  
agatcattac aggtaaaaga aacaacaatg gtggatcgaa tggtgacgaa gatgcagaag 300  
atcttcttag ttgggtgtgg agaagctgga gaagaagaca ctatactaag cgtgatcgat 360  
tcgagtttaa ccgcaagatn aagaaatgag atcttgagat gcatacacat tgggccttta 420  
ngtgtgcaag aaaagtgcaa cgacc 445

<210> 5835  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-B12

<400> 5835

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caagtagaga gattctggtg cagcatttgc ttgttaagaa taatgatgtt gagctctttg 120  
ccgaactcca aaagaaattc ttggatggag aggagatgag tgatcttgcg gctgagtatt 180  
cgatttgtcc ttccaaaaag gacggtggta tacttggtatg ggtaaaactg ggtcaaatgg 240  
taccagagtt tgaggaagct gcgtttaaag cagagctgaa tcaggtggtg aggtgtagaa 300  
cccaatttgg cttgcactta ttgcaagttc tatctgagag agaaccggtg aaagatatcc 360  
aggtagagga gctgcattcc aaaatgcaag attcaatttt catgggatga ggccagttaa 420  
ttgatgtcaa ganaac 436

<210> 5836  
 <211> 493  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-H10

<400> 5836

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actggttgng gtccttaggg ccccgcaatc gcaagggatc tctcncagtg cacagtgggtt 60
gtcactcttc tcctttgggtc gaaactcttt cttggaaaga gcattttgtt atcaagactc 120
tgaagagctc ttttgggagg atagtaaggt tggatgatga gagggagatc tgatggaggc 180
ctaaagaagc gtcttattgc ttcgggtctgt gtcgtggctc tattegtctg tttcttggtt 240
atgtactatg gttcctctag ccaaggtgca tcagcattgg aatatggaag atctttgaga 300
aaactcggat cgtcttantt gaggggagat gatgataatg gtgataccaa acaggatgat 360
tctgtggcta atgcagaaga cagtcctgtt gtcgccaaaa gttttccctg tttgtgatga 420
ccggcactcg gaaatcatcc ccttgcntan ataggaattt caaccaacaa aatgaaggtt 480
gaaancttga ttc 493
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<210> 5837  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-E9

<400> 5837

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ccgtcgaaat atggagtggt tgttatggaa gaaagcactg gaagagtggg gaagtttgtg 120
gaaaagccaa aactgtatgt aggttaacaag atcaacgctg ggatttatct tctgaaccca 180
tctgttcttg ataagattga gctaagaccg acttcaatcg aaaaagagac tttccctaag 240
attgcagcag cgcaagggtc ctatgctatg gtgctaccag ggttttggat ggacattggg 300
caaccccgctg actacataac gggtttgaga ctctacttag actcccttag gaagaaatct 360
cctgccaaat taaccagtgg gccacacata gttgggggaat gttcttggtg acgaaaccgc 420
```

tacaatttgg ggaangattg tttgatttgg accaagacgt tgccattggg nccaagctgc 480  
attgttta 488

<210> 5838  
<211> 488  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-F1

<400> 5838

nggttggttg cctacggtcc ggaatcacgg gctcgtgctc gtgcagctga atatccctgc 60  
tctgattcgt caaatccatg gaagatgagg atgatccaac cacaaagaac agcaacaaca 120  
cagatgattt tgctatagag cctcgtgaag ggattatatt tgaatccgag gatgcagcta 180  
agatgttcta tgatgattac tctagacgat tagggtttgt aatgctgtga atgtcttgcc 240  
gaagatccga gaaagacgga agaattcttg cccggagatt cggttgtaac aaagaaggtc 300  
attgtgttag tattcgtggg aagtttggat cagttaggaa acctagaccg agtacaagag 360  
aaggttgcaa agctatgatt catgttaagt atgaccggtc tggcaaattg gtcattacca 420  
aattcgtcaa agaacataac catccactcg ttgtttcacc tcgctgaggct cgccataccc 480  
tggaacgag 488

<210> 5839  
<211> 492  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-F10

<400> 5839

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caatgtcgct tccgattctg atttcattcc caaagactcc gcttttgagg ttacggattc 180  
agctgagagt aatagattgg tttccgatac ggaggtttcg gaattagaga cgaatgatag 240  
atattgtgggt ggtgaggaga cgaaaagtgg aggagaagaa ggggagggtta gtaatggagt 300

aacggaaggt aaggaggaag atcagaagaa gagcaagttt aggattgtgg tgttgatgat 360  
 ggcactatgg ggggctataa agagagtata gagaaggtaa tggagtgggg aatgggntaa 420  
 actggtgggc tttctctcgc caaggaagaa acggntccaa gaaacttaat gcctggaagg 480  
 ctggatgcca aa 492

<210> 5840  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-F6

<400> 5840

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 agagatagca atttagtttt ccgcttacga atgatctttt tctgatgcgt cattttgatt 180  
 aagtgtgtac ttctgcaatg gaggcttctc tagctgttat acagaggcct caagctggag 240  
 cttcgaatac gggtttataag agtggccctc tcttcataac atcaaaagga ctaagttgga 300  
 catcctggaa naagcgttgg gtttaacccta acccgaactt tctttggcct ttttcaaaaa 360  
 tgatccaagt gcattaacaa caaaaaggga aggtnaatta aatttgacct ttggangga 420  
 ttgacttgaa cagttcgggg aatgcctg 448

<210> 5841  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-F8

<400> 5841

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 agatttggtg tcccggagca agttgttgtt atggattcga gcgtcttgag cgggtggagga 120  
 gctttagggg agcttaagtt tccggtgatt gctaagccgt tggatgctga tgggagtgc 180  
 aaatctcata agatgttttt gatttatgat caagaaggga tgaagatttt gaaagctcct 240

attgtgttgc aggagtttgt gaatcatggt ggtgtgatct ttaaggtcta tgtggttgga 300  
gatcatgtca aatgtgtaaa gaagaagatc tttacctgat atctctgaag agaagattgg 360  
gacgtcgaaa gggctctctc cgttttcgca natatcgaat ctgactgctc aagangacaa 420  
gaacattgan tatggtgaag gatagg 446

<210> 5842  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-F9  
<400> 5842

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cttctattac ttctttcact tggacagttt taatcacagt gggatgtctt atgctttgtg 120  
cgtctttctc cgatgctcaa cttacccta ctttttacga cacttcatgt cctaccgtca 180  
ccaacattgt aagagatacc attgtcaacg agctaagatc ggaccctcgt atcgccggga 240  
gcatccttcg tcttcacttc catgactgct ttgttaatgg ttgtgatgct tcgatcttgt 300  
taagacaaca cgacatcatt tcgaacagag aaagatgcac ttggaaatgc aaattcagcc 360  
cgagggattt ccaagtgatt gatagaatga aagctgcngt gggagaaggc atgccaaga 420  
aaccgtttca tgcgcaagat atgctcaa 448

<210> 5843  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB23-001-Q1-E1-G2  
<400> 5843

cacgcgtccg gatggatcgt tcttcaagcg ttgcagaaa ttgttagatc cgttgcagca 60  
gagacttgca gatggatgcc atttggaag aaacacgaga gagtgcactt tggaagctgg 120  
ttttagtgga ggagttgaag tacagacctt ttctatgtat agcttccctt ggatgacaag 180  
acctcatatc tatggactag cttacaacta aaactatcat ctttattcaa ttactactaa 240

atgattggct ttgaatgttt tgattcgctg attgctgtta ttactaaata atatggagaa 300  
 aaaatgctaa ttatgtgtaa ttaaaaagat ttgattttgt ggacagaatc tgaagtagag 360  
 aaaaacatat cttcatgtta ctcttatgct ctgttttggg tatatgaagt aatttgagct 420  
 ttgataagtt aaaaaaa 437

<210> 5844  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-G4  
 <400> 5844

cgattgggtn gccgccttcc ggaaatnacg ggctcgacca cgcgtccgcc cacgcgtccg 60  
 ctctgggtata taggaatacc tcatgggtgcg gacaatacaa tcccagagtg ggtgtagttc 120  
 ttgagttcct ctacaacatc atcgagttta gtgcagtttt ttagttagaa atttatagtc 180  
 aagcaataat ggatcacacg gtgtgcaagc aagttcagcc agtcgtagg aaagcgaaga 240  
 agaagcatgg taaagatgaa tttgatcgta tcaaacaagc tgagaagaaa aagagacgtt 300  
 tggagaaaagc tcttgctact tctgcagcca tccggggctg agcttgaaaa gaagaagcag 360  
 aagagattgg gaagaacaac aaagggttaga tgaagaagga gctgcaattg cagaagctgt 420  
 tgctctgcac gtctactgg ggcgaaagat tcctgatgat tcatctcgag tcaagtttgg 480  
 tgaagaaaag gggt 494

<210> 5845  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-001-Q1-E1-G5  
 <400> 5845

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 caacggaaac tctgacaccg tcatgacgga atccgccgct acgatcactc cgtcgccggt 180  
 cgtcgtctcg tcttcgagat cgaatcaatt tacggaatct ctcaagcttg agcaccagct 240

cctccgcgtt cctttcgagc attacaagaa gacgatccgt accaatcacc gttcgttcga 300  
gaaagaggtc tcaaccattg ttaacggcgt cggagaattg gctgattccg attggtctaa 360  
agacgatacc gtttcgcgtc ttacttgccct tggtactcga ttacaaggcc tcaaacgaaa 420  
gttggaagaa gggagcaatg tggaga 446

<210> 5846  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB23-001-Q1-E1-G7  
<400> 5846

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gacgtgagct actcgaggag acaagtaatt tagcggctga gctgctcct tcagctccta 120  
gtcctttctcc cgggattata actgaagctt cacctcgaag cagcgggtct ttcctgcag 180  
taaccaatgc aaagaagaga agaccacctt tagtccctcc tgtaccttct cctgataagg 240  
gcagtactag tcctgatatc tctaagaatc agccacaaga taataaacag tcaaaaggat 300  
caaaacatgt atggctgtat gtggttatcg cgggtgcttc tttcgtcggg ttactgatta 360  
tagtagcggg tatctttctc tgccggaaaa gagctgtcaa gagcataagt ccttggaana 420  
ctggtcctag tggacaattg caagaaa 447

<210> 5847  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-G8  
<400> 5847

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aacgataaga caaatccat aaactagtaa tatcatcaa tcctctcact tcttccttat 120  
tcctcactt tcaactctac tatctgttga cttcacatgg cttccaccgc cgcaactgca 180  
gctctttcga tcatcaaatc caccggtggc gccgccgtta cagctcctc ccgcgcctcc 240



tttggacaca ttccctccac atctgtctcc gcacgtcgcc ttggcttctc cgccgtcgtt 300  
gactctcgtt tctcgggtcca cgtggcggtcc aagggtccact ccgtgcgcgg aaagggcgcc 360  
agggggagtga ttacgatggc gaagaagagt gttggagatc tgaattctgt agatttgaag 420  
gggaagaagg tgtttggtan agctga 446

<210> 5848  
<211> 493  
<212> DNA  
<213> Arabidopsis thaliana  
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<400> 5848

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gttacaagta tgaaggagtt gaagattcga agaagcggtt ttgaagtcgg ngagaccaag 300  
attgcgaagc ttatttggct gatgatttat ttcaggggaag aagaaataaa tcngtttttt 360  
ttagggtttt taagatttgg ttggtgaatg ggggtgggaan gtggaaggga aacaagttaa 420  
aaaaanagtta tggcttttaa gtgtctcctt ccttcaatna anttncattt ggggcaatct 480  
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<212> DNA  
<213> Arabidopsis thaliana  
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<400> 5849

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tttttctccg gatcttcagc tctgaggatt tttaaagctt ttaagcgctt attggagttc 180

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 gtgactgaaa gtattggttt taggcagatt ttgattcttc aatttttttt cgtaaagagg 300  
 gtttcgtgta tcaagacaac atctgaacag agaaaagtat ttatcttttc tgttggttac 360  
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<223> unsure at all n locations  
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 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-B5

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tttagtgctc ctagtccac agcagaatct tctcagcagc atactccatc atcttcgcag 240  
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 atggaaagaa agagaagctt acctcaaagc ccan 454

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 <212> DNA  
 <213> Arabidopsis thaliana  
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 <400> 5852

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 aatgacgacg actttctgttt gcccgttctc gaaagctgct cgctctgacg atgggtcgac 180  
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 tgctccgtcc tgacgaaaat gggagtaaag gatgtcctga acaagaagga aacttgaata 360  
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 cattcaagct tgggcctttt agctgta 447

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 <211> 483  
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 ctagtgctga tcccttttcg attggaccat catctatcat gggtcgaacc attgctttca 240

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accctcaagg gattttaagc ggtggttaca atcattgcct ttgtgttgaa acgatacacg 420  
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cgg 483

<210> 5854  
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<212> DNA  
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<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-C3

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agatgttctt cttacaggca tcaacagtta cagagcatca ctaaaccctaa caaccttaat 180  
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tgcctaacct cctctcaaaa tgccgctca accctaccgt aactagagac ggtgcgattt 360  
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<211> 445  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-001-Q1-E1-C8

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atttctctccg gcgactgagc agtttcgtgt taaaaccgcg gcggctgcgg cgtcgtctaa 240  
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 tatgcagaga ccggtttggg atgattggga atttgetgaa gaagaaccga ttcctagggt 360  
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 <223> unsure at all n locations  
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 ctctagccgt agcctcagtc tcctccgctg cttcattctt tctgttcga atctcgaatc 300  
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 cccttc 426

<210> 5857  
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 aaaagtgtat gtaggacaag atatcaatcg tatcacttac gtcaaattcg agtatgtgaa 180

ggaagacggc caagtcgtaa caactgaata tgggaaaatc attcaacaac ccaaagagtt 240  
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 tctatgtgcc acagaggtga tcacaaacct cgtcttcaag acctcaaagg gtagaaagtc 360  
 accactgttt ggcccaaact tgcttgaat tacgaccggt acaaagttcc gttattgang 420  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 5858

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 ntgttgctgc tactactcag gatcctagtt cctccggttc tcatgtctcc gtggatacgt 360  
 gtaaagagcc taagttttac tgggacttct agagatgaac tgtttgggtc aactctttgg 420  
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<210> 5859  
 <211> 450  
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 <223> unsure at all n locations  
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actacgcttg atcgatatat tagagatcat gttaaggagt tgcgaggag ttttatgctc 240  
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ttgcagaaga ttgatggaga caattatcct gagaacctcc accaaatgtt tatcatcaat 420  
gcanggcccg gattccgtct gctttgggag 450

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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-001-Q1-E1-D6

<400> 5860

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accaaatccg acatgacceca ggccctcggtt ttcggaggac tataatgacg ggactcttcg 180  
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gcaagagagg gccgaaggac taagattaac gggcgaagaa aatttaaagg gaggaagat 420  
aaagaagata cctcaaggag aatcccgggt tggttgttgc cgt 463

<210> 5861  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-001-Q1-E1-D8

<400> 5861

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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-001-Q1-E1-E2  
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<210> 5863  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-E3  
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 taatggcacg aaatttagtg tgaagacgag tctcgattca acggtggagt ctttcaaaga 240  
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gtatcctcaa ggacgatnaa actctcctca gctatggttt gcaggctgat cacaccattc 360  
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<210> 5864  
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 <212> DNA  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-E4  
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<210> 5865  
 <211> 450  
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 <223> unsure at all n locations  
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gattctacat gtggtaaaat aaattccatt agtaat 276

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<212> DNA  
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<223> Clone ID: LIB23-058-Q1-E1-F5

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<210> 5869

<211> 385

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-049-Q1-E1-C3

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<210> 5870

<211> 336

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-007-Q1-E1-G3

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atatctggag aaaggggttt ctggaaacaa ggagttcata attcgcgata ttgatctatc 180  
gatcttcatt tatatataaa agcgtgaatg agattatgat ggagtcgaaa ggtggtaaaa 240  
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<210> 5871  
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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-047-Q1-E1-C6

<400> 5871

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gatcttcatt tatatataaa agcgtgaatg agattatgat ggagtcgaaa ggtggtaaaa 240  
agaattccag cagtagtatt tccatatttt acgaatctcc cctcggttac aacattgaag 300  
acgttcgtac agacggtgga atcaagatat tcaaactctc tgtc 344

<210> 5872  
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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-028-Q1-E1-G10

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gtccagcagt agtagttcct tattttacga agctcccctc gggttacagca ttgaagacgt 300  
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gccatcctg 369

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 <213> Arabidopsis thaliana

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tgaacagcgt agcctacttg atgggcaatg atgatgagac taagaaatgg catgtctatg  240
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ggtcaatgac                                     370
  
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<223> Clone ID: LIB23-038-Q1-E1-D5

<400> 5874

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agaagtccag cagtagtagt tccttatttt acgaagctcc cctcggttac agcattgaag  300
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<223> Clone ID: LIB23-023-Q1-E1-G5

<400> 5875

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tggagaaagg ggtttctgga aacaaggagt tcataattcg cgatcttgat ctatcgatct 180  
tcatttatat ataaaagcgt gaatgagatt atgatggagt cgaaagggtg taaaaagaag 240  
tccagcagta gtagttcctt attttacgaa gctcgccctcg gttacagcat tgaagacgtt 300  
cgtccaaacg gtggaatcaa gaaattcaga tcttctgtct actcaaactg ctccaagaag 360  
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<210> 5876

<211> 403

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-013-Q1-E1-C7

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tgatatctgg agaaaggggt ttctggaaac aaggagttca taattcgaga tcttgatcta 180  
tcgatcttca tttatatata aaagcgtgaa tgagattatg atggagtcga aagggtggtaa 240  
aaagaagtcc agcagtagta gttccttatt ttacgaagct cccctcggtt acagcattga 300  
agacgttcgt ccaaacgggtg gaatcaagaa attcaaactt tctgtctact caaactgctc 360  
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<210> 5877

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-063-Q1-E1-B10

<400> 5877

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 tgatctatcg atcttcattt atatataaaa gcgtgaatga gattatgatg gagtcgaaag 240  
 gtggtaaaaa gaagtccagc agtagtagtt ccttatttta cgaagctccc ctcggttaca 300  
 gcattgaaga cgttcgcca aacggtggaa tcaagaaatt caaatcttct gtctactcaa 360  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-020-Q1-E1-D12

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 aaacaaggag ttcataattc gcgatcttga tctatcgatc ttcatttata tataaaagcg 180  
 tgaatgagat tatgatggag tcgaaagggt gtaaaaagaa gtccagcagt agtagttcct 240  
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 <223> Clone ID: LIB23-060-Q1-E1-D7

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caagctttgt gaccagattt ctgatgcgat ccttgatgct tgcttagagc aagatcctga 240  
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cactaccgct gcgaaagttg actatgagaa gattgttaga tccacttgca gggagattgg 360  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB23-028-Q1-E1-B6  
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gaacgaagga caccctgaca agctttgcga ccagatctct gatgcagtcc ttgatgcctg 180  
ccttgagcaa gaccctgata gcaaagttgc ttgtgagaca tgcaccaaga ccaacatgg 240  
catgggttttc ggtgagatca ccaccaaggc tacgattgac tacgagaaga ttgtccgtga 300  
cacttgccgt tccattggat tcatctctga cgatgttggt cttgatgctg acaaatgcaa 360  
agtccttggt aaca 374

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<223> Clone ID: LIB23-047-Q1-E1-A3  
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gatatctgga gaaaagggtt tctggaaaca aagagttcat aattcgcgat cttgatctat 180  
cgatcttcat ttatatataa aaaccgtgaa tgagattata atggagtcca aaggtggtaa 240  
aaaga 245



<210> 5882  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-055-Q1-E1-C11

<400> 5882

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tctgatgcag tctctgatgc ctgccttgaa caagaccctg acagcaaagt tgcttgtgag 180
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gactacgaga agattgtccg tgacacctgt cgcgccattg gatttgtctc tgatgatgtt 300
ggtcttgatg ctgacaaatg caaagtccta gtcaacattg agcaacagag cccagacatt 360
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<223> unsure at all n locations  
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<400> 5883

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gctctgtgac cagatctctg atgcagtcct cgatgcctgc cttgaacaag accctgacag 180
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taccaaggct actgttgact acgagaagat tgtccgtgac acctgtcgcg ccattggatt 300
tgtctctgat gatgttggtc ttgatgctga canatgcaaa gtcctagtca acattgagca 360
acagagccca gacattgctc aaggagttca cggtcancct accaaatgtc ctgaagaaat 420
tggacccggt gaccaa 436
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 <212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-029-Q1-E1-A6

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ggttgatcac atgaggaaga tgaagaacaa tgccattgtc tgtagcattg gtcattttga 180  
caatgaaatc gagatgcttg gacttgagac ctaccctggg gtgaaacgta ttagcatcaa 240  
gccacagacc gataggtggg tgtttcctca taccaactct ggcatcaatg ttctagctga 300  
aggtcgtttg atgaacttgg gatgcgccat tggacacccg agtttcgtga tgtcgtgctc 360  
attcaccaac gaggtgattg cacag 385

<210> 5885

<211> 387

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-042-Q1-E1-D8

<400> 5885

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cttgggatgc gccactggac acccgagttt cgtgatgtcg tgctcattca ccaaccaggt 180  
gattgcacag cttgagctct ggaacgagaa gtcaagcggg aagtatgaga agaaggtcta 240  
tgttttgcct aaacacttgg atgagaacgt agctgcactt cacttaggca agcttgggtgc 300  
aagactcacc aagcttacca aggaccaatc tgactatgtc agcatacccg ttgaaggtec 360  
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<211> 384

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-023-Q1-E1-B1

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 tctgatatct ggaaacagat gtctgtctgt gggattaagt atatcccaag caacaccttt 240  
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 caccctttct cattatgacc aggtgcttga caccaccgcc atgcttggtg ctgttccatc 300  
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tgatctcagg tcatccatct ggaacacagat gtctgccgct gggactaagt tcatccctag 240  
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 <223> Clone ID: LIB23-057-Q1-E1-C11  
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 tcccaatcct accaaccaca accattggat ccttcccaca gactgtagag ctcaggagag 180  
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<210> 5890  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 tcctccgtca gtaaaagaaa atcaaaatgg cttcacacat tggtggatac ccacgtatgg 180  
 gccctaagag agagctcaag ttgcatctgg aatctttctg ggatggtaag agcactgctg 240  
 aggatcttca gaagggtgtct gctgatctca ggtcatccat ctggaaacag atgtctgccg 300  
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<223> Clone ID: LIB23-051-Q1-E1-E5

<400> 5891

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tctcccaatc ctaccaacca caaccattgg atccttccca cagactgtag agctcacgag 180
agttcgtcgt gagtacaagg ccaaaaagggt ctcataggag gactacgtta aagccatcaa 240
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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-015-Q1-E1-B8

<400> 5892

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aggatatgat aactgggtgg tgagatcggc cttgatgttt acttctccat ggctagagga 360
aatgcctctg tgcttgccat ggaaatgacc aagtggttcg acaccaacta ccattacatc 420
gt 422
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<211> 430

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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 agtttgcat t ggaatctttc tgggatggta agagcactgc tgaggatctt cagaagggtg 180  
 ctgctgatct caggtcatcc atctggaaac agatgtctgc cgctgggact aagttcatcc 240  
 ctagcaacac ctttgctcac tacgaccagg ttcttgacac caccgccatg ctcggtgctg 300  
 ttccacctag gtatggatac actggtgggtg agatcggcct tgatgtttac ttctccatgg 360  
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 aggtgtctgc tgatctcagg tcatccatct ggaaacagat gtctgccgct gggactaagt 180  
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 <223> Clone ID: LIB23-022-Q2-E1-C10  
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<212> DNA  
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<223> Clone ID: LIB23-043-Q1-E1-G1

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aagtgggttcg acaccaacta ccattacatc gtccctgagt tgggccctga ggttaacttc 180  
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gt 422

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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-010-Q1-E2-G11

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<210> 5898  
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 <212> DNA  
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 <223> Clone ID: LIB23-007-Q1-E1-E11  
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 cggggacgct ggattatcct ccaggatctt aagatttcct cctaatttcg tccgtcagct 240  
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<210> 5899  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-059-Q1-E1-B4  
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 gggccctaag agagagctca agtttgcaat gggaaccttt cgg 103

<210> 5900  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations



<223> Clone ID: LIB23-019-Q1-E1-B5

<400> 5900

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tgatccagat ctcgctcggtt ctcccgctcg tggatcatct cgccgctcgtg tccatgcctc 180  
cgccgggatt tcttctcat tcaccgggga cgctggatta tctccagga tcttaagatt 240  
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tgttgcacag atcgtggcgg ctaagtggtc caacaacca tctccgctg taccttctgg 360  
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<210> 5901

<211> 398

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-017-Q1-E1-H7

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<223> Clone ID: LIB23-070-Q1-E1-G1

<400> 5907

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cgtaccgaat tcggaccttc tcagccattc aaaggcgcta gaatcaccgg atctcttcac 240  
atgaccatcc aaaccgccgt actcatcgaa accctaactg ctctcgggtgc tgaagtcaga 300  
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<211> 427

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-043-Q1-E1-E8

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agtcagatgg tgttctgca acatcttttc cactcaagac cagccgccg cagccatcgc 360  
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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-073-Q1-E1-F6

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caagccgatt tcggtcgtct cgaactcgag ctgcccgaag ttgagatgcc tggactcatg 180  
gcttgctgta ccgaattcgg accttctcag ccattcaaag gcgctagaat caccggatct 240  
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ac 422

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<212> DNA  
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<223> Clone ID: LIB23-046-Q1-E1-G6

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cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240  
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tccactcaag accacgccgc cgcagccatc gtcgtgact ccgccgctgt tttcgcttgg 360  
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<210> 5911  
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<212> DNA  
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<223> Clone ID: LIB23-055-Q1-E1-B8

<400> 5911

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agccattcaa aggcgctaga atcaccggat ctcttcacat gaccatccaa accgccgtac 240  
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ccactcaaga ccacgccgcc gcagccatcg ctctgactc cgccgctgtt ttgcctgga 360  
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<210> 5912  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-018-Q1-E1-F7

<400> 5912

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cgatttcggt cgtctcgaac tcgagctcgc cgaagttgag atgcctggac tcatggcttg 180  
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atggtgttcc tgcaacatct ttccactca agactacgcc gcggtagcca tcgctcgtga 360  
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<223> Clone ID: LIB23-062-Q1-E1-E5

<400> 5913

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<210> 5914  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-006-Q1-E1-D12  
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 a 421

<210> 5915  
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 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-024-Q1-E1-H9  
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 cagatcgtgt tgtctattat caaggaaggt cttcaagttg atcctaagaa gtaccacaag 240  
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cagatgcagc aaaatggaac tcttttgttc cctgccatta acgttaacga ctctgtcacc 360  
aagagcaagt tcgacaacat gtatggttgc ggtcactcac tccctgatgg tctcatgagg 420  
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<223> Clone ID: LIB23-059-Q1-E1-D12  
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<223> Clone ID: LIB23-004-Q1-E1-B2  
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<210> 5918



<211> 374  
<212> DNA  
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<223> Clone ID: LIB23-044-Q1-E1-B3

<400> 5918

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<210> 5919  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-F5

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<210> 5920  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-F9

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<210> 5921  
<211> 513  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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aatttagctt ccaggtacca aaaacctgcc attaaggtgg gaaacaaatt ctaattcaaa 360  
aaaagctgca naaaggtgtt aaaacctgtt nacaagccac atttgcaacc gcagctnngc 420  
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<210> 5922  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-G3

<400> 5922

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gaagttgtat acganagcta ntgatngctt aanggtatga tcttttgngn tatttgngta 420
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<210> 5923  
 <211> 511  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-H11

<400> 5923

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<210> 5924  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5924

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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 5925

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512

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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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ccatcatgaa aattgcaggt acttcatctt atgattgctt cttcaaacac tggttctgtt 240  
atatttttcg tggtcgcggt tatagcgact tgcacaaggt ggcatcattg ggtccaacgc 300  
attaggtttt ctactcatgg cctttcccaa aaattctgtt tcttgcaaaa ctttctctcn 360  
gcttcccnct ttcngggtaa aaagntttgc aaccaggga aatgggnaag gagggatnat 420  
gatgaagatg aaagaaaatt ancatccaac aaantgttgc cttgaaaaaa gcaangnca 480  
anccangttc ttcnaangca antggttctt aaaaatggtt ggccccttcc aag 533

<210> 5927  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-A10

<400> 5927

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acccgcaagg tagtggcccc tggggagctc cgactccaca agccggagga gtggtagtgg 180  
atccaaagta ctgcgctcct taccctatag atatggcgat cgtacngaag atgatgtcgt 240  
taacggacgg caatttcgtg ataacggacg tcnacggcaa cctgctgttc aangtgaaag 300  
aaccggtgtt ttgncccca cgacaaaaag ggtcttgccg gatgggtctg gtaatcccg 360

tcctcacttt ganaggaaan atggtggnca tgcattgacan gtgggaantg tttaaaagga 420  
 gggattacgg ttanccg 436

<210> 5928  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-A11  
 <400> 5928

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 atttcttgca atccttataa acaaagagcg tggagaatcg tttcagagga aagaaaacta 120  
 aaaatggcga ctcttttcaa caaatctcag caggctgttg gagttcttgc caagagtacc 180  
 acatttgcta agaaccacaag gcaactgcag tttgaagcag acgttaacaa actctttatg 240  
 tatacaagct ataaccgggtt gggacgagaa gctgaggaga ctgatgcaga ggaagatnat 300  
 tgagatggct ggtaaagcca ctttatctga gcaacaagaa ngcaaagttc aagagaacat 360  
 tcactagcaa gttgaaaaat tccgctcctt tgatgggatg ggnatccttc cgtccctgat 420  
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<210> 5929  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-026-Q1-E1-A2  
 <400> 5929

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 ctcaagtgtc ccagaagctt ccgtcctcca gcaacagcaa gttcacttac aactgcgatc 180  
 accatacctt caatttcctt gtcgaagatg gctacgcata ttgtgttggt gcgaaagatt 240  
 ctcttagcaa gcaaatctcg atcgatttc tggagcgtgt gaaagctgat ttcaagaaga 300  
 gatatggagg tggaaaagca agtacagcta tcgccaaaag tctcaacaag gagttcgggc 360

cggtgatgaa aggaacacat gaattatatt gttgaccatg cagaaggaga ttgaaaaact 420  
aataaaagtc aaggntcaag gttcagaagt taaagtataa tgttggggaa tattgacaag 480  
g 481

<210> 5930  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 5930

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caatggctgt cacaaaactt attctctttg cttctgcatt acttctaaca gctctattta 180  
tcggcgtaa tgcattcagg tccaatgaaa catggnatga acatgcagtt gagaaccag 240  
atgaagtcgc tgccatggtg gacatgngca ttcgaaacag cacagagcgg agaagattan 300  
gttacttctc ctgcgccacc ggcaacccaa tcgacgattg ctggcggtgc gaccgcaaatt 360  
ggnaactccg tcgcaaacgt ttaacccgat tgctcaatcc ggntttggcc gcaacgcaat 420  
cggagggcgc cgacgggtccg ttctacgttc ttaaccganc ctggagacga cgattcccgt 480  
ttat 484

<210> 5931  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-026-Q1-E1-B11  
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agttctctag ctcccaaaat cgggtccgcta ggtctcgac caaagaagat cggagaagat 180  
atcgcgaaag aaaccgcaaa ggaatggaaa ggattacgtg taaccgtcaa gctcacagtg 240

cagaatcgtc aggcgaaagt gacggtggtt ccatcagcag cagcactcgt catcaaggcg 300  
 ttgaaagaac cggagagaga taggaagaag gtgaagaaca ttaagcataa cgggaacatc 360  
 tcgtttgatg atgtgactga gaatgctaag atcatgagan ctanatctan tgctaaagga 420  
 attgagtggg acagtgangg aaaatctggg aacttg 456

<210> 5932  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-F3

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 ctgacttaac gaagagtctt gatctggctn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnngt tctcttcaac agactgatcc tccttcaatt cctgttcttg 300  
 agctcttccc ttctggagat tttcctcaag gtgaaatcca acagtacaat gatgataatt 360  
 tgtggagaac aacatctgaa gagaagagag agatggagag gctgcaaaag ccgatatata 420  
 actctcttcg ccaagcagcg gaagttcacn tcaagttagg aagtanatga aaaagtaact 480  
 gcc 483

<210> 5933  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-D3

<400> 5933

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 ctcatgtggt tccctttgat aatattggga ttgtttgttt tgaaatgggt gctgaagaga 120  
 gtgaatgttt ggatttatgt gtccaaactt ggtgagaaaa aacactatct gccaccaggt 180



gatttgggat ggccagtcac aggcaacatg tggctcctttc ttagagcttt caaaacatct 240  
gatcctgaat ccttcaccca atcctacatc accaggtatg ggcgtaccgg gatttataaa 300  
gcacacatgt ttgggtaccc atgtgtacta ttaacaacac caganacttg taggcaantt 360  
ctaacagatg atgatgcctt ccacataggt tggccaaaat ctaccatgaa actcattggc 420  
aggaattcct ttgttggtnc ccctttga 448

<210> 5934  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-D6

<400> 5934

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atattctgga ctgactatgt tgctacaaga tggtagcgtg cgccagaact ttgtggctct 180  
ttctttctcca aatatactcc tgccattgat atatggagca taggatgcat atttgaaga 240  
aatgctcact gggaagccat tgttcctggg aagaagttgg tgcacaattg gtatatgact 300  
gatttgcntg gnaactctc ctcnaannc tattgcaagg attcntangg gaaaaggggn 360  
angagatatt cggggantaa taanggggaa aaccgccaan ttccaancaa ttccccaaan 420  
tttcccccaa gtnggacccc aattg 445

<210> 5935  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-D7

<400> 5935

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aagataacat attccgcatt ttgtgtggag atcggattca gggtagtatg agggcattca 180

gggtggaaga tttaccgatc gaatccaaga tgcttactaa agctctagat gaagctcaga 240  
 gaaaagttga gaattacttc ttgacatca gaaagcaatt attcgaattt gacgaggttc 300  
 tcaatagcca angagatcgt gtttatacag ananaaggcg tgcnccttgtt tcgganancc 360  
 ttgacccccg gattaccgan taggctnant tganaanggt tgacattcta aggnnaaatt 420  
 tgggcccana tncccaagg gaaaccggga ttttgaaanc cca 463

<210> 5936  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-D8  
 <400> 5936

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 gcaacagcaa ccaagtgcatt gtctctaaac ccattctctc cttaaactcca aaaccaaacc 180  
 aaatccaaac cattcatctc cctaccaacc ccaccaaacc caaacgtctc tctcgccgtc 240  
 acaagcaccg ccctagccgg agccgtcttc tcttccctca gctactctga gccagcttta 300  
 gccatccaac agatcgctca gctcgctgca ngcanacgcc agtagcgaca acngtggctt 360  
 agctcttctc cttcccatcg tcccaancca ttgcatgggt cttttanaac atcctccang 420  
 ccagctatta ancaaggta acangntgcg tgagagtaaa ggtatcgntg ttggtctagg 480  
 tantggtggt ggtcntgcag ggt 503

<210> 5937  
 <211> 504  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-D9  
 <400> 5937

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 tttcaccgct ggcattgctt ctttctacga gggttactat gccacaaag gaattaacat 120

tgtcaaaggc actggttgcac ctggtttcac taccaactca aatggagagg tcaactgaggt 180  
gaaattgaaa gacggaagaa cgtagaagc tgatattgtg atagtgggtg tcggtggtag 240  
accaattata tcaactcttca aagatcaagt tgaagaagag aagggtggtt tgaagactga 300  
tgggttcttc aaaacaagcc ttccagatgt atacgccatt ggtgatgtag ccaccttccc 360  
aatgaaactc tacaatgaaa tgagacgctg tgaacacggt gaccatgctc gcaaaccg 420  
tgaacaagcc gtaaaggcaa tcaaggcggc tgaagaagg aactcaattc cggaatatga 480  
ctatcttcca tactttactc ccga 504

<210> 5938  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-E1  
<400> 5938

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gatcattcga ctctcattag tactgctact tgcattctgag tttatgaatt gggacaatgg 120  
atctgcagat tgtgtgtgat ctgatgaaac cattgttgtg tttttttgtt tcattctcaag 180  
aaactagcta aagagatctg ttactgcatt atctattgat gttgtctatt tatgtgtgtt 240  
tcagggtgatt taagacaaca tcaatagata atgcagtaac agatctcttt agctattgat 300  
gttgtctatt tatgtgtgtt tcagggtgatt taagacattt cctcgatgat ttgtgatcca 360  
actcngtttc tcttttngtg ttgtactcnc atgttccac ttntgtccca agtggttaact 420  
cagaanttta cncncagtn anaaaaaaaaaaa angggcg ggccg 465

<210> 5939  
<211> 529  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-E10  
<400> 5939

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actgagaaga aattggaact taaagacggt aaaggaggaa aacttgtggg attccatggg 120  
aaagctagtg atgttcttta tgctcttggc gcttatttcg ctccaacaac aaattcaact 180  
acgccatcga ctcttcttac atctaagaaa ctacaagcaa gaggtggaaa tggaggagct 240  
tcttgggatg atggtgtttt tgatggtgtt agaaagatac ttgtacgtca aggaaacgat 300  
ggtgtagctt tcgttacgtt tgagtacaac aaaagctctc aagcaatcct ccgtgatcgt 360  
catgggaaag caaacattac ctgggnactg aaaacgtttt gngcttgant aaccaagtga 420  
gtacatcact tcggtagaaa gggtagcaat gacaaaaatt ttcgngttt gaaacctgaa 480  
antggtgacc antcctaacg ttccaaagaa ctaaccaaga gaaacntct 529

<210> 5940  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-E11  
<400> 5940

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ctggtttggg cttatcggaa gcactctttc cttctcgtcc tgacctgggt ctgagtggta 180  
taaacgtggg tagcaactgc ggttataaca tcgtctattc tggaactggt gctggcgctc 240  
gtgaagcctt cttttatgat gtgccttctg cctccatata atatgatttt gattggaaac 300  
gtggagagat gaatgctaata gattttgccc tttctgcca ancctgcttg cccattatca 360  
acggcatact cggtgcaatc aagaacaaaa ctcanctat gcaatgcttt ctgaatatcg 420  
atttgccgac tgatattgct aaccacaagg gatacaaac 459

<210> 5941  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-025-Q1-E1-E2  
<400> 5941

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 gctatacggg aaatgtctgc ggatgttttg cagcgtcaac cccttgcgta tatttctagg 180  
 tccaaggaat acaatatcca gccaaaacca gttctctcgg cctttgagtt cagggcactt 240  
 gcaatgacta cagtgcgagtc ccttttgatg ttttatttgc ctcttttgga gcctaaaacg 300  
 gnttcagagg atgatgatga tttcctaaac aatgctgcag aagaaaaccg ccacacagac 360  
 ttgattgttc ctcttaaana gtcagcaaag catgattgcc cgtgaaacca nanttgnaac 420  
 cactcagnca ntccttgga ggctgggact naagttactc ncacaacgta ag 472

<210> 5942  
 <211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-E8  
 <400> 5942

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 cgatatcttc ggtagtttat tcgagatcac atctaagtat cgtcctccga ttataccaat 180  
 tggctcgtgga gcttatggaa tcgtttgctc tgtgttggn acngagaaca acgaacctan 240  
 taccatgaag aagatagcta atgcttttga taatcatatg gatgctaaac gtacgcctcg 300  
 tgagattaag cttctcgtc atcctgatca tgaaaacatt atagctatta gaaatgttgt 360  
 tcaccaacac taagaagaca atttnatggn gtttaaaacc cacngaatta aggggaacng 420  
 tttncacaa tcatcaagat ttaancagag tt 452

<210> 5943  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-025-Q1-E1-F11  
 <400> 5943

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 ggtccaaaga agcttcccat catcggaac ttacaccaac gcaggacact acatccgagg 180  
 aatcgccgta atctcgccga aatgtatgga ccagtggcgc ttctccaata cggattcgtc 240  
 cccgtggtcg cgatctcttc gaaagaagca gcagaggaag tgctaaagat caacgatctt 300  
 gagtgttgta gtcgaccaag aggcggccgg aatgagagca actttttaca acttcaaaga 360  
 catcggggat ggcaccttc ggtgacgagt ggagtctgat gcggaagctc tcggtggtcg 420  
 agctcttcag cgtgaaaaag cttcaatctt tcaagtatat cat 463

<210> 5944  
 <211> 504  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-F12  
 <400> 5944

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 agcattctcc aaagcttctt ctttttctt caacgatcgt cattgcattg taatttggag 180  
 agtttagcta caaagtctgt cttcatcgaa ttaagatcta tctgattttt ctgggtggnt 240  
 ctcatgtgtg agatttttga tgggtttaga gttgtcggat atggaangtc ttcttatctt 300  
 tgatttgtnt tataaattaa gcgnaanaa ttttganggt gactttgagc cgaaaaacct 360  
 ggattccttc caaggaagta attaattggtc cctgangaan tccctgttt ttgccgncaa 420  
 attttcaatt ttcngagtg gtaataaatt tagaatchat aatgcagcaa gatananaga 480  
 aantgtgtta atcngaagaa gacc 504

<210> 5945  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-F2

<400> 5945

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tcgagagctc agatctccga tctagagcct ttcgcttctc ctcttctgtt catataacaa 120

ctgaataatg tcgatctccg cccaaaatcc ggatatttcc ggcgatagac aatccggcca 180

agatgttcgt actcagaacg tgatggcttg tcaagctgtt tctaatttg ttaagacctc 240

acttgggtccc gtcggcctcg acaagatgtt ggtggatgat attggtgatg tgactattac 300

aaatgatggt gctactattc ttangatgtt ggaggtcgag caccctgctg ctaaggttct 360

tgtcgagtta gctgaacttc aagatagaga agtcggtgat gggactacat ccggttggtaa 420

tggtanctgc tgaattgttg aagaaggcaa atgatttggc aggaacaaaa tacatccaac 480

a 481

<210> 5946

<211> 506

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-025-Q1-E1-D2

<400> 5946

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actaattcca catactcaga gagaaatggc aaccgaaacc gtattagcca cggcgggtgag 120

caatggcaaa agcaaaggat gttgcaagtc cgggtccaggt tacgcgacgc ctctcgccgc 180

catggccggt ccacgggaaa agctcatcta tgctactgcc ctttactccg gaacggggcg 240

agacaaaccg gactacttgg caacggtgga tgtggatcca agctcaccca cattttcaag 300

cgtcattcac agactaaaaa tgccatatat aggagatgag cttcaccaca ctggttgga 360

ctcttgacgc tcttgccatg gtgatgcttc tgctgataga cgttaccttg tcttacaagc 420

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ggttttaagc ctaggnaatt ccgaaa 506

<210> 5947

<211> 540

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-B4

<400> 5947

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caancaaaat gtttgttctt gatgaagctg atgaaatgct ctctcgtggt ttcaaggatc 120
agatatacga catcttccag cttcttcctt ccaaggttca gggttggtgtt ttctctgcta 180
caatgcctcc cgaagccctt gagatcacia ggaagttcat gaacaaacca gtcaggattc 240
tggtcaagcg agacgagctg actcttgaag gtatcaagca gttttatgtc aatgtagaca 300
aggaagagtg gaaactcgag acactatgcg atctctacga gacactggcc atcactcaaa 360
gcgtcatctt tgtgaacaca aggcgtaagg ttgattggct aaccgacaaa atgagaaacc 420
gtgaccacac tgtttcagct acacacgng gacatgggac caagaacaca agagacatca 480
tcaatccna aattccgctc ctgggtcctn cccgtgtccn caaaaacact ggacctcct 540

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<210> 5948  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-B5

<400> 5948

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catcaacttt ttgaacttgt tatggagata atctcactga acgttgtgcc ccagtgtctt 180
gtggttactt ggagtagtaa attagcaacg aaaagattgg tcccaaatacg gtcaagtttg 240
ttattctcag gggtcacaaa atccagactt gtgattcgaa gtggaaattc cgatggttat 300
gttggttggtg agaagatga cttgggtcgt atagccagaa gaggagaatc aacgtcaaan 360
gntttgattc ccggtttgcc tgatgaatca aatggtgaaa ttgctgctcg aatcaatcaa 420
tcccactgcg antggaagcc aagcctaaag tacantatg 459

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<210> 5949  
 <211> 466



<212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-025-Q1-E1-B8

<400> 5949

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 gcttagttgc agaacagtgg agacaggaac atccagagtc tcaaactctg ggcagacagt 420  
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 ctggatattt gatgaccact gctggaggta gcttctcatg cagaaaactt aacattggat 300  
 ccaaactttt tgttccatct ctactggat tcacttatac tggattagat gttgtccaac 360  
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 cttcctccac tggaggtttc ttcagaacca tttgcagcaa gcagtagcaa tgactactcc 300  
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caagcgggttt taaaactaag ggaaaaaacc aagatcagcc tttgtctccg agatcttgtc 420  
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aaaagacact ctctacaag taaaaactca cgccgatnaa agaaaaaccg gaagaagtca 360  
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acagccgtac attatccccg gggagttatc aactcctctc ctncctncgtt gggttaagttc 420  
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ancgacgggg attaagaagg ttacgatatc aaatcccggc gtcggaatcg gtaaaggaag 360  
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ccgtgtcact tcnctaataca tacangacgg cgagatntcc ggtcagatcn nccctgaant 300  
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tcgccctagt tggagaaagc cgtcggtttc tcattttgaa atttccaagg agatctgaaa 240  
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 ggtaaatcgt aaatcgttca tggggttagt taaagagggt tactgaaagc annatacgtt 360  
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ccggatgttg gcaacaactg cntctcccgt gtttgtccaa accccaggan agaanggggtt 360  
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<223> Clone ID: LIB23-023-Q1-E1-E2  
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acaatggtag cagaggccca cctcctgggt ctggctcgtg ttttaattgt ggtgtcgatg 240  
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aaagaggaca cattgagaga aactgcaaaa acagtcctag tccaaagaag gccaaaggcaa 360  
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<210> 5972  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-E7  
<400> 5972

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gcttcagctt cagctggctc tgagatggat gccagagttg aatttgatct aaatgaaggt 120  
tttgatggag acgatgcaca acatggggac ncaaataact tctctggatc tgtagttttg 180

acgcctactc ctctacaacc acttaatacc ttaccttttc cgggtggctcc tgtatctagt 240  
ggaattcctg catccattac tgttgctgct gccgtcanag gtccgtttgt tccacctgaa 300  
gatctgttga natataaagg ggctgttgnn tggagaagat ctgctgccac tantgccttc 360  
cgccnnngctg agccangana agctcaggat ntgttactga gcattaacaa tactcnacat 420  
ctgatgcaac caactcctgc tgggaaaaca na 452

<210> 5973  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-023-Q1-E1-D10

<400> 5973

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acggagatga gctcaccgag caggaaactg ctctttatga ccgtcaaatt agggatatggg 120  
gagctggtgc tcaaagaaga ttgagtaaata ctcatgtttt ggtatctgga attaagggca 180  
ctgttgctga gttttgtaag aacattgtgt tggcaggagt aggtagtgtg actctgttgg 240  
atgatcgatt ggttacaacg gaagtcttca acgcaaactt cttgattctt cctgatgaaa 300  
atgcttatgt aggcaaaacc gtagctgaga tttgttgatga ttcacttaag gattttaacc 360  
ctatggttca tgtttcaata gagaaagggtg atttgtcaac acttggtgtt gatttttcaa 420  
aagtttgatg ttgtggttat cggctac 447

<210> 5974  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-B10

<400> 5974

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agagcaaaac tatctaattc catggcgctc tccctcctct ctccaattcc tacctctgcc 120  
tctctttttt tcaactctct cgccattacc gcttctaata atgcttcctc ctccctctctc 180  
tcccgctctt actctttata tcacccccaa ggaaccttac gaaccagaac cgcgacctcg 240

tttttcggag cttctgggaa cttgaggatt gtttccatgg cggagaatag gcaattgggt 300  
 tgtaggattg gtggcggagc cggtgctgaa ttggatgata tggatgaagg tgaaatccag 360  
 aggattggaa atgaagacga agacgacgat gaattcatac aagtcaatgc taataattcc 420  
 tctgctgctt cncgtg 435

<210> 5975  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-B2  
  
 <400> 5975

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 aacagcttct tgaaaacccg tttttctgcg atacagcgcg tgagtgggaag ccggatattt 120  
 cttgtgatgt tcctgctgat atctatcaag atggaactcg tctttgggct attgataaac 180  
 cgaatatctc tcgtccaccc gctggctggc aacgtttact gcggattaga ggtgaaggag 240  
 gtaccagatt tgctgatgtt tattatgttg ctccgtctgg aaagaagctt cgatcaactg 300  
 tggaggtcca aaagtacttg aatgacaact ccgaatacat tggagaaggg gtgaaacttt 360  
 cacagttctc gtttcaaact cccgaaaacg ctgcaggatg actaacttaa ggaaaccgcc 420  
 caactccaac tactggattc catcgataat acaaacancc cctgttacta aaga 474

<210> 5976  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-B3  
  
 <400> 5976

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 gtgccttgac caacacgtta tctcctgnag acaggattgt ttcgtttctg antggacaat 180  
 ttaacttgct ctggattgac cancagaana cgcttaattt cantgttgat gtggttgaga 240

gtgattgggg acaacgtgct aatctccaag tcttggnctc aaagctctca catgacgaga 300  
atcataccat caaagccatt tgcattgtcc acaacgagac ngcgacnggn gggtacaaat 360  
gacatctctg ctgtccgcan atcctcgatt actanaagca tccnggnntt gctgctaattg 420  
gaccgtgttc cgtcancctn nccccttgan ttcccgaatt ggggtgattg 469

<210> 5977  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-B4

<400> 5977

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cactgccact ttctctgctg ccgtctccac tactttcttc caggtggcag tatcaagagg 180  
cttgaacggg atagggctag ccattgtgac acccgcgatt cagtccctag tcgctgactc 240  
aactgatgac tataaccgtg ggatggcatt tgggtgggta ngattcacat caaacattgg 300  
ttccatactt ggctatgtat gttcatcctc tttgcctcaa aatctttcaa tgggtgctgct 360  
tggattggag naatcgctt ccttttggg aagcaagtcc gttaagccgt gaaaagtagg 420  
gcatttttgg gtccggtctc ctncgcaaca 450

<210> 5978  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-B7

<400> 5978

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tcagatcaaa gacttcaaaa actgaaacac aacaaccatc atcgatatga caacaacaag 120  
acgctatgta ctcatcttac ggaaccgtga gtgacgaagt gttattacag attcatggat 180  
gcagagctca tctcatcaac ggatccgaag ctgtggagct agccgccgga gacttcgagc 240

ttgtacaagt cttagacagc aacgtagcct tagctatggt cgtgaggatc ggaaatgact 300  
tacaatggcc ggtgattaaa gacgagccag tggtgaaact tgactctcgt gactacctct 360  
tcacgttgcc ggttaaanga tggagagcca cttattacgg catcacgttt ttcctantg 420  
atgaaaatga catcggtttt gtgaataagt acgantttgc 460

<210> 5979  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-C1

<400> 5979

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tctttgttca atctcaaagg tttttgagta tcagcaaaga tgggtgacaa tcttatggac 120  
aaagttaccg catttggtga gcgcctgaag atcggagggtt cggaagtga caacaagatc 180  
agtgtcgtg tgagctcaat gagctttaa gtgaaggaac tttttcaagg tccaaaccca 240  
actgataaaa tagtcaaga tgctactact gagaatctag aggaacctga ctgggatatg 300  
aatttggaat tttgtgatat gataaatcaa gagacaatta atancgttga gttgatccgt 360  
ggataaaga agangattat gatgaagcag ccgaggatca ntacntgcc ctgggtttgc 420  
cccagactgt gttaagaact gtgagaaagg gttttcaaaa ggtgga 466

<210> 5980  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-C11

<400> 5980

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gaagaagcta cggctgctaa gttaccctag ggcaaattg ctacgtcagt ctctcctctt 120  
cgccgggatg gaacgttatg ctcttctcga atggctcttt ttcaagttat tangtgataa 180  
atcacctttc tcacagcaaa atctccaagg agatgctgga gttcgtgatg aagaaactgt 240



tcgtattcaa tatttggcag agattgcaaa gtttttgggg attacaccaa ctgtagacat 300  
tgaagccatt caangacatg gaacctatga agatcggatg gaaatgcttc gcantattgt 360  
tgatttagtg gangcgaacc tcttctcaga taatcaagat gggngtattg atgaacaant 420  
tgccaaaaga tattcagctc atagatgcaa 450

<210> 5981  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-C12  
<400> 5981

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agctctgacg gctttctctc gcctccacca tcatgttctc gcttcttctc cttccgactt 120  
cgaaggtttc gatgctgaag acgacgatgt ttcagaagat tccactgagc ttcaccactc 180  
tctccgtcct cctcttctga ctcatgtctga gtcaacgggt ctggatctgg acccatctcc 240  
cgattctgat tctactcctg catctaaatc tgatccnccc actcagaccg tgaagccttc 300  
gtcctccatc tcttctgatt actgggatga agatgagttc gaaggattgc cggaggacga 360  
gaaatctacg gagtctccgg ttttttccga tgacgcctcc tctctgccga tcaaaagacg 420  
ccgggatctt gagtctngctt cagaa 445

<210> 5982  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-C2  
<400> 5982

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tctttcgtcg ctttcaactc aactgataat tatctcatca attccggttc taacaccaat 120  
acatctttct tcacaaccgg ttcttttctc agcgactctt cagaacctgg ctcgagtttt 180  
ctctccaccg atcgatccat ctcgatttct gacacgaacc catctccaga ttcaccggtt 240

ttgtacaaca cagctcgtgt tttccccgtc ggaggatcat acaaattcca agtcactaac 300  
aaaggnactc actttaaccg tccccaatc gcgcccttta aaagcctcca agaattaacn 360  
taaaggccgg caaaattcca gtttgataat ggggtccccg ggatnacaan ttcaatacaa 420  
ctccgtcgtt ggtaaaggaa tcaaactcaa aatcgatgac ccggttt 467

<210> 5983  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-C3  
<400> 5983

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ttcaccaatg aatctcgtct ctgggttgat cggatgctgg actacaatgt acgtggaggg 180  
aaactcaatc ggggtctctc tgttggtgac agtttcaaac ttttgaagca aggcaatgat 240  
ttgactgagc aagaggtttt cctctcttgt gctctcgggt ggtgcattga atggctccaa 300  
gcttatttcc ttgtgcttga tgatattatg gataactctg tcaactcgccg tggatcaacct 360  
tgctggttca anagttcctc aagggtgggt aagggttgca atcaatgaag gggaatccta 420  
acttncgcaa tcacatccac aagggtattc caaaaagnaa tttccgtgaa aaagcc 476

<210> 5984  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-023-Q1-E1-C6  
<400> 5984

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catttcaatg gcgatgcaat ctctttcccc tgttcttaag cttctctcca caacaccaag 120  
ctctgttctt tcttctgaca agaacttctt cttcgtcgat ttcgttgat tatactgtaa 180  
gtccaagagg accagacgca gacttcgtgg agacnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnnn nnnnnnnngc cgttatcgac cttgaacgtg ttcattggcgt 300  
 ctctgaaaag gatctctcct ctctttcagc tttaagacct caggttgcta atttgaggga 360  
 tatattgtct gaaagaggag cttgtggagt tgggttataa caaacttaga taacatacct 420  
 tcacatggag ttgtcaaaga tgctcctaata gctcctgggt gtatg 465

<210> 5985  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-C7  
 <400> 5985

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 gcggcgaagc ttcagttatc ggcgaaatct gatcaaagca gtgtgcgatt accgagagtg 180  
 atcaacctct cccgcgatcc aacgactaga gtctcgtttc cgcgaaatgg atcagtttgt 240  
 tccctccaca cnaattttctc ttctccacat ctgcgcaaac cttgcgcgg angtggtggt 300  
 ggtggaatgc accggttaata acggcggcgg aagcggaagc ggnggaggag gtggtggttn 360  
 tggaggttca nggggtgann cagtangan ncatacncatg gggacantan ggtatcatcc 420  
 aaggangata tca 433

<210> 5986  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-C9  
 <400> 5986

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 ngtctcaacg ttccagttat ggttcgggggt cagggtccgg ttcgggctca tgttcangaa 240

accgtctcta cgtgggcaan ctttcttggg gtgttgatga catggcactt gagaacttgt 300  
 ttaacgagca angacatntn gttgaaatct aaaggtttat ctacgacagg gacaccggta 360  
 attcaacggg tttntggatt ttgttaacac tttanctcnt tccaaanaag ttcaagaaag 420  
 gccattaaat tcccttgaat tgggaagcaa aatttggaat n 461

<210> 5987  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-H3  
 <400> 5987

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 cattgcaaag aacacaagaa agacaaagaa gaatctacct cccggaccac caagacttcc 180  
 tataattggt aacttgcacc aattgggatc aaaacctcac cgttcgatgt tcaaattatc 240  
 tgaaaaatat ggacctctag tgtacctaaa gcttggaaag gtaccgtctg ttgtggcctc 300  
 aactccagag acagtgaagg atgtcttgaa aacgtttgac aaagattggt gttcgcgagc 360  
 ttttttgaca tatcctgcaa gaatttcata caatttgaaa gatctgcgtt tgctccctat 420  
 agcaaattatt gggaagnngg tacgaaaaga tgacggttgt cnaac 465

<210> 5988  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-H6  
 <400> 5988

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 attcttcacc ttaaccgctg caacagattg tggttgcaac ccaagtccta agcacaagcc 180  
 tgtcccaagt cctaaaccca agccgggtccc aagtcccaaa cccaagccgg tcccaagtc 240

ttcagtagca agtccttcgg tcccaagtcc taaccctang ccggtcacgc ctccgagaac 300  
 ccctggctca tctggaaact gtcctatcga tgctctcaga ctcggtgtat gtgcgaacgt 360  
 ttttaagcagt ctactcaaca ttcaattggg tcagccatca nctcaaccat gttgctcget 420  
 catccaaggt tggttaactc gacgctgcca nttgccttgc 460

<210> 5989  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-H7  
 <400> 5989

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 aattgaccgc gctatgcttc gaccgggtcg ggtcgacgta cacattcatt ttcccttatg 180  
 tgatttcacg gcgtttaaaa cgctcgctaa taactactta ggtgttaaag agcacaagct 240  
 tttctctcaa gttgaaggaa tattttcaaaa cgggtgcgctn ttgagtcccg ccgagatcng 300  
 agagttgatg atcgcgaaatc gtaactcgcc gactcgtgca ttgaagcatg tcatcaatgc 360  
 tttgcagact gatggtgatc ggagaggaac tggacgacgt ttgcttttan aaaaatggtc 420  
 gagaaagtcg actcggagga ntttctgatg atataa 456

<210> 5990  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-H8  
 <400> 5990

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 ttccacagcg gagccaagca gagcagcttc ggcgctgtca gagtcggcca gaaaactcag 180  
 ttcgtcgtcg tttctcaacg caagaagtcg ttgatctacg ccgctaaagg tgacggcaac 240

atcctc gatg acctcaacga ggccacaaag aaagcttcag atttcgtgac ggataaaaaca 300  
 aaagaggcat tagcagatgg tgagaaagcg aaagactacg ttgttgaaaa aaacagtga 360  
 accgcagata cattgggtaa agaagctgag aaagctgcgg cgtatgtgga ggagaaagga 420  
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<210> 5991  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-H9

<400> 5991

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 ggtcttcctt acgccttcaa gcgaaccgga tggtcatgg gtgtcctcct cctcgtctcc 180  
 gtctctgttt tgacctatca ctgtatgatg cttcttgtct ataccgcgcg caagctcgac 240  
 tctttcaatg ctggnatctc caagatnggn tcctttgggg accttggtt ccccgttcgg 300  
 cggtnccctng ggaaggttgt ncttnaccta attaacnate cgtnncaaac tgggttttgt 360  
 gtccgataac ctaacntca tcggnactac tttagcta at cnanccgatt ctgaatcgnc 420  
 caacantctg aaggatcaat ttacaaaggn tgggggttt 458

<210> 5992  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-A1

<400> 5992

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 gtcgtgcact ttccgacgga gtgatcaaaa agatcctcct ttcatacacc tatgtngcaa 180  
 tctggatctt cctcagcttc acagtcacg tctanaanaa atacatcctc gacaagaaga 240

tgtataattg gccattccca ataactctca ccatgatcca catggggttt tgctcttcct 300  
 tanctgtgat tctcatcaaa gtcttnanag tcgtcgagcc tgtttcaatg tcacgccaga 360  
 cntatcgcat attingtcgtn caaatcgng cgttgtagtc aatttctctc tgggttatca 420  
 aactcggcnt acatctagct cccnggttc cttcatcaa at 462

<210> 5993  
 <211> 401  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-A10  
 <400> 5993

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 tagtctccca accaaacca ccaaccgga ggcgccggtg ttgcttgacc ggatgctgag 180  
 cttacttgtc agccactcga tcttgaagtg ccgtatgatt gaaaccggag agaacggctc 240  
 aaccggaaag atcgagaggg tatatgcagc cgaaccggtt tgcaagtatt ttttgagaga 300  
 tagtgatggt acaggatntc tcgtgcctcn gtncatggtg ctcataacca agtgttttca 360  
 ngacttggn c aaaccttaaa gatttgtccc aanaaggaag a 401

<210> 5994  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-A12  
 <400> 5994

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 nnnnnnnnnn nnnnnnnnnn nntccttcaa tggaaacagc aacatcgaca acctccta 120  
 ccaaacccta cttggacgtc tocaaattcg tccccctaac tctcatttcc tctctcaatc 180  
 cctagacgac ctctcttca aatccgacga cagcgacggc gatgatgacg gagaaggtea 240  
 gaccagtctc gacagagaag aagctaggct tgagaaagag ctaatccgag tcacgtctc 300

tgggtcgaagc gattctctca agccgaattc aggtcaagcc gtgacagtca acgancacca 360  
 catctgcgtt gggtttcatg angatgagga atcggattat cgtgtttggg agtggcatgg 420  
 tcatatcatg ttggtttgat gaagana 447

<210> 5995  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-A2  
 <400> 5995

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 gttcttcttc atcaacctaa tcgaatcttt tatcctctct tcgatcccaa catcgataaa 180  
 ttattattac catttgccgc gttgttgagt gatctccgag actatggaga gatcagcgtc 240  
 ggtgggtggt aacgacggcc gttttggtgg caaccaattc caatccgcaa ccttctctct 300  
 cctctctctt ccttctctct tccaatggag acatgttaaa ttacaagttg tgggatctgt 360  
 gggatatgaac taaantgga gctccacgaa tccgaatcac atcngacaat cgggtnaaaa 420  
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 agggaaagat tcant 495

<210> 5996  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-A3  
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 ctgttttttt tcttactta gogatggcga tgatagagca aaggccgaag acgaagatcg 180  
 tttgtactct aggtccagct tccagatctg ttccgatggt cgagaagctt cttagggctg 240



gtatgaacgt tgctcgtttc aatttctctc atggatctca tgaataccat caagagactc 300  
 tcgataatct tcatcaagct atgcttaaca ctgggattct ctgtgccgtc atgctcgaca 360  
 acaaagggcc aagaaatccc gaaacgggtt cntggaaaga tggggaaaac aatccaactg 420  
 aaacaaggac aaagagatna ctatttcgac ngactatgac ttgaagggt 469

<210> 5997  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-A6  
 <400> 5997

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 aaaacatgct ggtcgttcc cctgggtctg ggattgtcca tcaggtcaac ttggaatacc 180  
 ttggacgtgt tgttttcaac tcgaaaggat ttctctaccc tgatagcgtt gttggaaccg 240  
 actcccacac aaccatgatt gatggattag gagtcgctgg gtgggggtgtt ggaggaattg 300  
 aggcanaaggc agcaatgctt ggtcagccca tgagcatggt gttacctggc gtggncgggt 360  
 taagttggat ggaaagtttn aaggaagggg ttacggctac tgatttaatt ctactgtga 420  
 nccaaatatt gangaagcat ggtgttgtcc gggaagtttg ttgaaattt 469

<210> 5998  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-A7  
 <400> 5998

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 catatcgggtg ttgcaatcgc tgggtctcaca gccgacggtc gtgtattgtc tcggtatatg 180  
 agatcgggaat cgattaatca ctcttttact tatgagtctc ctcttctgtg tggtcgtctc 240

gttggttcac ttgctgataa agctcaggtc tgtaccaaac gatcatggaa acgaccctat 300  
 ggtggttggt ttgctgggtang tggattggat gaggctggag cccaacttta ctacaactgt 360  
 cccaacggaa actacttoga gtancaagct tttgctattg gattccgttc ocaagcagca 420  
 aagactaacc ggaacgcan 439

<210> 5999  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-H2  
 <400> 5999

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 ccattctttc agctcatcca tcccttgata gccaaagagg ttaccaaca gcatgtgctg 180  
 gctccagata caatactgga ttcagaaaac aggtcaacct gttccaggaa agtccttcg 240  
 caggacccaa gcaatacaca gaggaagact tcaaggatga gagaaacagt gatttttttg 300  
 atggatttct tgccattgga acccttggtg gagaaacact tcttgatgaa caaccaagca 360  
 acgccgacat ttggcatgtc atttgaggac ccagcaatag atgatgcaag atgtgacaag 420  
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 agaaagnc 488

<210> 6000  
 <211> 517  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-G2  
 <400> 6000

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 ttgctgattg agaagcgaaa aatgcttgaa tcaggaattt gcaagtatgc gtgaacaaag 180

gagcaagaaa caatgatcta aagaagatga agttccactt actgttagag agacgtttcc 240  
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 gggtaatggt cataagcgtg gnaagaagcg aaagattcat ccagcaacaa tgtagtata 360  
 agtgtggaga ctgataaaca ngatatgttg tcaaacaag cccaaaagaa gtgggtcctt 420  
 ggaaaatgtg tcaatccttc aactgtggat gccccatgtt tcaaagaaat gatgactggn 480  
 naatggtggt caaatggggc ttgaaaaccc gaatgtc 517

<210> 6001  
 <211> 513  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-G3

<400> 6001

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 aagatggaac tggctcttc cttccgatta tegtcttgga gatgcctagt gtgttactta 180  
 tggcagcaat gaccaatgtc caaattgcaa gaccaaccat gtatcaagt gtgaaggaaa 240  
 tgggtggaaa gatgggttac gaagttagac ttgttagagt caccaaaaga gttcacgagg 300  
 catattttgc ccagttattc ctttcaaagg tgggtaatgc ctggagtgt gtcagctttg 360  
 atcttangcc ttcagatgca atcaatatag ctgttagatg caagatacct atccaagtga 420  
 acaagtacct tgcatatagt gatggaatga gagtcattga gtcanggaag atatcaacaa 480  
 cgggcaccaa nttcaaatgg ntaataattt act 513

<210> 6002  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-G5

<400> 6002

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atcatcttct tcggatgttt atttgcggtg tcctctgcaa tagaagaggc tacgaagtta 180  
ggatcagtga tagggataga tcttggtact acttactctt gtgttggtgt ttacaagaat 240  
ggcatgtcg aaattattgc caatgaccaa ggaaaccgta ttacaccttc atggggttgg 300  
tttactgact ctgaaagact cattggtgan gctgctaaga atcaagcagc tgttaatcca 360  
nagangactg tcttcgacgt taagagattg atcgggcgaa aatttgacgg ataaaggagg 420  
tcaaaangnt aaggaaactt gtaccttaca gattgtgaca aggat 465

<210> 6003  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-G6

<400> 6003

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cactttagcc actccctctc ccccatgttt atcctgcgcc atctccctct tacacgccat 180  
ctccgtttat cccgaaataa ccgcgtcnct tcngttgtat ccgccgccgc cgttcgccag 240  
gacgcttccc tctgngactc canctcntct ctctctaate gaatcaagct gcaagaatcc 300  
gcttttccaa caatctcaat cggacatttn aaacgctccg gatntcgtag cttcgtnac 360  
ganaaccggt cagtaactcc aagattcgtg gtcccngatg ttgaagaaac cctcctttaa 420  
gggaaanggt ttctctnct tcttggcgtc ctcccgtgg gggcttccgn aattcttg 478

<210> 6004  
<211> 516  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-H12

<400> 6004

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gccgtcttaa gaagattttg ccagtgcggg aagcggcgga gattgagaga ttagcgacga 120  
 tggaggaaag caaacagaac tatgacctga cgccactaat agcgccctaac ctggacagac 180  
 acttggtgtt tcttatattc gagttccttc aagagcgtca gctttaccct gatgagcaga 240  
 tcctgaagtc taaaatccag cttttgaacc agacgaacat gggttgattac gccatggata 300  
 ttcacaagag tctctaccac actgaagacg ctctcaaga aatgggtggag agaagaacag 360  
 aggttgctgc tangctcaaa tctttgggag gangctgctg caccactccg tgtcntttct 420  
 tttgaaccct aacgctgtgc aaggagctaa gaactgacaa gcaatacaat ctccaaatgc 480  
 tccaagggaa cgctancaaa attggtccaa gaccaa 516

<210> 6005  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-H3  
 <400> 6005

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 caaatggcgg ctgaagccga taatccgtat ttccgacttg gatacaacag tctaggcgct 180  
 ttcgctacca ttaaccatct tcactttcag gcttactatt tggcaatgca attcccgata 240  
 gagaaagctt cttccttgaa gatcactacc accaataatg gcgtcaaaat ctctaaactc 300  
 ttgaattacc ctgtgagagg tcttctagtt gaagggtggaa acaccattaa agatctcgca 360  
 gatactgtat caaacgcacg cgtttgcctt cagaacaaca acattccttt caacaatccc 420  
 anctctgact cctggnaaac gaatcctccc tctcctcaat ggttacgca 469

<210> 6006  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-H5  
 <400> 6006

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aaaagggtg ctgcttacgg ccaacaaaat ggttcacaag ctcttacact tgctggtgga 180  
catggaggga atggttcaat gtctgatgga gaatcaaata actcaacaat atttgttggc 240  
ggtcttgatg ctgatgttac tgaagaagac ctcatgcaac ctttttccga ttttggggag 300  
gttgtttcag tgaagatccc agtagggaaa ggatgtggct ttgtccaatt tgccaacang 360  
caaagtgctg aangaaagca tccggaactt gaaccggaca gtcattggga agaactgg 420  
tccgccttt catggggaaa aaancccaac aaacagtggg gaaatnac 468

<210> 6007  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-H6  
<400> 6007

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cgacatggag tccaacaggt cgtttattcc aagtgggaata cgccatggaa gcagtgaagc 180  
aaggatctgc agcaattgga ctcatgctc gttctcatgt cgttctcgct tgtgttaaca 240  
aagctcaatc ggagctttct tcgcatcaga ggaagatctt taaagtcgat gaccatatcg 300  
gtgttgcaat cgctggcttc acagccgacg gtcgtgtatt gtctcggtat atgagatcgg 360  
aatcgattaa tcaactcttt acttatgagt ctctcttcc tgttggtcgt ctggtgttc 420  
atctgctgg ataaaagctc aaggtctgtn nccaacggat tatgggaaac gaa 473

<210> 6008  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-H7  
<400> 6008

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 agcttacata gcacctgaag ttcttttcacg gagagaatat gatggcaagc acgcggatgt 180  
 gtggatcatgt ggagtaaccc tttatgtgat gctgggtgga gcttaccctg ttgaggacct 240  
 taatgatcca aaaaacttca ggaaaacaat ccagcgcata atggctgtac aatacaagat 300  
 cccggactat gttcacatat ctcaggaatg caaacatctt ctctctcgca tattccgtca 360  
 ctaactctgc taaagagaat cacacttaan ggagatnaaa gaatcatccg ttggtactga 420  
 agaanttgcc aaaagaactg ctaaatccgc tcaagcggcg tatacaaa 468

<210> 6009  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-H8  
 <400> 6009

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 atccantccn cgtttctctc cttccaagct ctctatttcc actttcttct ctcgctctgc 180  
 catctattac agatcaaaac caaaacaagc ctcgtcttct tcttccttct ccactttccc 240  
 cccatgtctc antcggaaaa gctccctcac gcatgttctc aaaccctgtc cagagctcgc 300  
 cgacaccact accaagcctt tttctcgngg agatcgtcgg naagagaacc gatctganna 360  
 agattangat tctcggggct ggtccgattg tcattggggc aangcttggt gagtttgant 420  
 actccgggac tcanggggtg tnaagcctta ggagaaagag ggntatgagg 470

<210> 6010  
 <211> 464  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-A3  
 <400> 6010

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 catcgngnga agtagtggcg tcggcggcgg atttgctgac catcacaggt tagacgactc 180  
 gactagacct atgatcgatc ctagccctat tcttaagtac tagccctagc cctgcatcga 240  
 cttcttccgt ctcttctctt ggttttggtt acgcttccac gacaatgccg agactggata 300  
 catttgagcc tggtggccgt gatctgacgg ctggtgatgg tggtgatttc aatttgatgg 360  
 aggaggagta ccaaagtcca gttaggctat gggcgattaa gcgtctcctg atcctgattc 420  
 cgagagagaa tgcanatata gctcagcttg atgccgctaa gagg 464

<210> 6011  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-A9  
 <400> 6011

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 gtgatcttct tcttcatcaa tggcgtctag tgataaaca acaagcccaa agcctcctcc 180  
 ttcaccgtct cctctccgta attccaagtt ttgtcagtca aatatgagga ttttgatctc 240  
 aggaggagct ggattcattg gttctcacct tggtgataag ctgatggaaa acgaaaagaa 300  
 tgaggtgatt gttgctgata actatttcac tggttcaaag gacaacctta agaagtggat 360  
 tggatcatcca agatttgagc ttatccgtca cgatgtcacg gagccacttt tgatcgangt 420  
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<210> 6012  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-022-Q2-E1-B11  
 <400> 6012



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 cagaggggtt ccaaatatta ccagtcgtta ggaagcaatc acgagttggt ttaggaatta 180  
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 gctggcatgg ctactccaga ttggtctggt tttcaggcat attctcctat gccgccgcct 360  
 catggttatg tggcatctag tccccaacct caaccttata tgtggggagt tcagcatatg 420  
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 tn 482

<210> 6013  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-G10

<400> 6013

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 tcaatggaga acataaccgc gcagctcaaa cgaggtatct caagacaatt ctcaactggt 180  
 tcgattcgtc gaacattgag ccgacagttc acgcgtcagt catctcttga ccctcgtagg 240  
 accaacaatga ggtttagttt cggtcgtcag tcttctctcg atccgatcag gaggagtect 300  
 gattcttcca agagtgatga cgagccacat atgtcggtag cgagagaatct cgattcgacg 360  
 atgcagcttc tctttatggc tagcaaaggt gatgtcagag gaatcgagga gcttcttgac 420  
 gaaggaattg atgttaatag catcgatctt gatggccgga cggngcttca catcgccgct 480  
 tgtgaaggac atcntggtgt 500

<210> 6014  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-D1

<400> 6014

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gttttcttga ctcaggagta tggccagagt ctccggtta taatgacgaa gggcttgaac 180  
caataccgaa acattggaaa gggagtggtg tagccggaga ggattttgac ccagcaaagc 240  
attgcaacaa gaagttagta ggagcaaagt acttcaactga tggctttgat gagaacaatt 300  
ctggaatcag cgaggaggac tttatgtccc ctagagggtta tagaggacat gggacgatgg 360  
tctcttcaat tgcagcctct tcatttgtgc ctaacgtgtc atatggtggc cttgcacctg 420  
gtgtcatgan anggcgtgc tccaaangcc ctaa 454

<210> 6015  
<211> 500  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-D10

<400> 6015

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cttcgagacc tgaaatttcg ttattacttc gattcctttt cacttccagt ttaatctctc 180  
cacggttcct ctccggcgac actccgatga cttaccgaat cgccaagggt atttagtccg 240  
ccacgatatg aaaggaggat gaagaggaca agtggatata tataagggtg tgaaaacgac 300  
gccggatttg cgaatcgttt cggatggaca tttttgttta cttctctcct tctctggcca 360  
ctcttctctc ttctgctgga ccaatactgc tcatanggat gatggcggtta aaagagatga 420  
atcgcgattt gtgtattgct gaggatttat gcgcagaagt gtttatggaa acntgaaggt 480  
atggggactt catcacagaa 500

<210> 6016  
<211> 519  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-021-Q2-E1-D4

<400> 6016

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ctcgtcctcc tctctcttgg cttegtttgc gtctcctatg cttgcgactg taccctctct 180  
aaaccatcac cagcacctca caaaccacca aaacatccag tcaaaccgcc taaacctcct 240  
gccgtcaaac cacctaaacc accggcagta aaaccaccta ctccaaaacc tcacaccgtg 300  
aaacctcatc ctaaaccacc aancgtcaaa ccccatccta aancacaaaa cgttaaacc 360  
caacctaagc canccancgt naaaccancc caacctaacc caaccaaaaa anctnaacc 420  
caacaaaaac ctcccatcgt naangcanca accaagnctc ctccgttcaa cctaaanct 480  
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<210> 6017

<211> 464

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-021-Q2-E1-D5

<400> 6017

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cttgggaaag ttcttcatct atcatccttc aatcgtcatc atccatggct gatcaacaaa 180  
ccctagattc ctctactcct cctcctactc aatccgatga tctatctcac tcccactcta 240  
cttcctctac tacttcagct tcttcttctc cagatccatc actcttgagg tctctctcct 300  
taagtcgact caacgccgga gctcctgagt tcgttcttgg tcgaactact cctccgctgc 360  
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<210> 6018

<211> 511  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-E3

<400> 6018

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cttctttcac ttctgggcaa gaagctctgt tgtggaacat cggaaatcag aactgaaaca 180  
gaaacagaaa ccatggagaa gagagaagac gaacaacaaa agcgcgacga ttctagattc 240  
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ttgttgacta ggagatcaga tcctcctcca tacccaatct ctccaacata tcaacggagc 360  
ttatctgaga atgacgccgg aagaaatgag ctattcgaaa gtctgttga ngtggaggat 420  
cacaattcaa gcaagaaaca tgataatata tatgctgggt aagctacgat naaactctag 480  
tgctgaaagg agtgtgaaaa gaagttcaaa a 511

<210> 6019  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-E5

<400> 6019

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cgataaagga ttccaatct ccgtctacaa tcgaaccact tccaaagtcg acgaaacctt 240  
agatcgtgcc tccaacgaag gaaaactccc agtcgctggt caatactcgc ctgcgcattt 300  
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tgancaaacc atctctgctc tctctgaata catgggagcc tgggtgattgt atcatcgacg 420  
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<210> 6020  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-E6

<400> 6020

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ttcaaaaaac ctgcagttcc attcgcattc gcgctaattc ttgctgatgc aatcctagtc 180  
gcacttatta tcgcctatgt tccatacacg aagatcgatt gggatgctta catgtcacag 240  
gttagtgggt ttctcggggg agagagagac tatgggaact tgaaaggcga tacagggcca 300  
ttggtttata caacagggtt cctctatgtt tactctgcag tgcagaactt aactggaggg 360  
gaaagtctaa cctgctcaaa ttccttttgg tgttctctac attgtcaatc cggggatcgt 420  
cntgatcatc ctacgtgaag actgatgtng ggccatggtg gggaat 466

<210> 6021  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-021-Q2-E1-E7

<400> 6021

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tctcctctgt ttccaatccc aatcaactca atctcttcaa tctctcactc gccctcaaat 180  
caactggaac tcgatccaaa tcgtctccga caaaacctca ccttacgcta gtttcogtac 240  
agagaaatgg atcgtttgtt cggtgacaaa gcaccaaca gaggagctca aaggtttggt 300  
caagattaaa ggatggcaag ttctagcgat cggaaactct ttaacaccta aagattggaa 360  
tctcaaagggt gcgatttttc tatctctaga tgctcaagct gagcttaatt accggatttt 420  
ggatcatttg ccttaagatt ccttcgtacg caaaaatgtc ggta 465

<210> 6022  
 <211> 505  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-E8

<400> 6022

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cctcttcttt aaattggatg ttttgggcaa caaacagaga gaaanacgtt aatttgagag 180
tttgtcattg aatatttggg ttgcaatgga aaganatttt ctgggtttga gcgacangca 240
ttatcnaagt aataachtta agcatgaggt taacgatgan gctgtcnaan aacnagggtt 300
aagtacgaag gcagctacag aatgggggaa gtcanngggt tttgctactt caagtttcat 360
gccttcttca gatttccaag gaggctaaag cgtttccggg gtgcanacca gtggggatca 420
gtttctgcgg ncaatgtttt cccgcagatg ccaanttggg ggggtgggtt caagaacggn 480
gacgcgcgtt taccaanggg gggca 505
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<210> 6023  
 <211> 509  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-F10

<400> 6023

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc ggcgatgggt gttgctatgg accaacgcac 180
caatgtgaac ggagatcccg gcgcgggaga ccggaagaaa gaagaaaggt ttgatccgag 240
tgcacaacca ccgttcaaga tcggagatat aagggcggcg attcctaagc actggtgggt 300
taagagtccg ttgatgcaa tgagttacgt cgtcagagac attatcgccg tcgcggcttt 360
ggccatcgct gccgtgtatg ttgatagctg gttcctttgg cctctttatt gggccgccca 420
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caagacattc ctctactgaa taatgtggg

509

<210> 6024  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-F4  
  
<400> 6024

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gcgtccgccc acgcgtccgg gctaagcgag acacacacac acgcgcagtc ttcttcatct 120  
tgcttgcttc tggttgctta accaaaacac catggaatct ccttaaattt cctcacctac 180  
tcacttccaa tttcaacctg ctcgattctt cccctcttct tcgcaaaagc cctagttttg 240  
atcatcgcac ttactctcc tccgcatgag aaatcgagaa atccgctcga cgtagtagat 300  
agataaaacc acaaagttag ggttttttca attgggtatg gnaactcgtg ttgggaaaaa 360  
agtttngcct tggncgnaaa attgggaacg gntncttcgg ggaaanttaa ctcgnaatg 420  
aagttcaaac taacgaagna antgccaatt agccttgaaa tgttaanaac tggcgcaatc 480  
ngcaatt 487

<210> 6025  
<211> 486  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-F5  
  
<400> 6025

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tccgcccacg cgtccgcca cgcgtccgga cgtgacggtg gcgtctgttg agactcaggt 120  
tggcgttgat gcttgtcatg gcatcaagat ggtcgtgat actcttctcn ctgatattac 180  
cgactctgtt ttcgacctta ttgtgctccc cggagggtt cccggtggcg agactcttaa 240  
aaactgtaaa tctttagaga acatgggtcaa gaaacaagac tctgatggcc gacttaacgc 300  
agctatatgt tgtgctcctg ccttggtctt tgggtacttg ggtctactan aaggcaataa 360

agcaacgggt tacctgttt ttatggacaa acttgcggct acttgtgcaa ctgctgttga 420  
 gtcaagaagt gcaaattgat ggaanaatag tgancaatcg tggaccaagg aancaccatt 480  
 gaattc 486

<210> 6026  
 <211> 464  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-021-Q2-E1-F7  
 <400> 6026

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 atggctgttg cgctccaatt cagccgatta tgcgttcgac cggatacttt cgtgcgggag 120  
 aatcatctct ctggatccgg atctctccgc cgccggaaag ctttatcagt ccggtgctcg 180  
 tctggcgatg agaacgctcc ttcgccatcg gtggtgatgg actccgattt cgacgccaag 240  
 gtgttccgta agaacttgac gagaagcgat aattacaatc gtaaagggtt cggtcataag 300  
 gaggagacac tcaagctcat gaatcgagag tacaccagtg atatattgga gacactgaaa 360  
 acaaatgggt atacttattc ttggggagat gttactgtga aactcgctaa agcatatggt 420  
 ttttgcgtggg gtgttgagcg tgctgttcag attgcatatg aaac 464

<210> 6027  
 <211> 514  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-C9  
 <400> 6027

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 aagctcatca ggagatggag ctcatctcta ctgtccgcaa tccatttgtt gtcgagtaca 120  
 aagattcatg ggttgaaaag ggttgctatg tgtgcattgt tattggatat tgccaaggcg 180  
 gggacatgac agataccatc aaaagagcat gtggtgttca ttttcctgag gagaaattat 240  
 gccaatggct tgtccaacta ttaatggccc tcgattatct tcaactccaac catattcttc 300



accgcgatgt caagtgttct aacatattct tgacaaaaga gcaagacata cggcttggtg 360  
actttggact cgctaagatt ctaacttctg atgaccttac atcctctgtt gttggaactc 420  
caagctacat gtgtcctgag cttcttgctg acatacetta cggatnaaag tcagacattt 480  
ggtcgttggg atgctgcatg tatgaaatgg ctgc 514

<210> 6028  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-H12  
  
<400> 6028

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cccgtgtgca ttggcctgaa aaatcgaatg ataaagccaa ttactacacc tacagtggat 180  
ggtggtctgt ttggtggagt ggtacatata gcatggtact ctcaaaggca accttcttcc 240  
acaaaaaaat acctcaacct ttacacaaat agcaagccaa catcaatcan ggaattcaca 300  
acaaagaaca aggaactggt aaagatattg caatgtcaat cctcaatccg caaatgctac 360  
aaacgctcct ggctataatg gtttaaaggg taaatatatg aaatccggtt caactgggaa 420  
tantancata ggagggcaca cagaaaaaag acacactgcg tt 462

<210> 6029  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-H6  
  
<400> 6029

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ctttataact ctttctgggg tttttaattc tctcaacgaa caaaaaaaaa aactcaacta 120  
atattctcca tcctctttct tcagatttaa gagaaacctt atcgttatat tctctcttct 180  
cttttctttt tgactcccac aagaagaaag caaatcttct tttctcagga ttgcttgaaa 240

actgtagaaa tctttaaggt ttttttacac caatannnnn nnnnnnnnnn nnnnnnnnnn 300  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgggtgct 420  
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<210> 6030  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-020-Q1-E1-H8  
 <400> 6030

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 cacaggcaag gccgtactgg cagctcttcc ctccatcttc cctcagatcg agtctgttct 180  
 attgagtccc caagaacctt ttccacactt caaggccata caaaatctct ttgaagaagg 240  
 attcagcttc ccaangatgc tggcctctta cctctgctcc ccanaatcat caaagctctt 300  
 ggcgaagctc aagatgatat tctccagttt gatgcccaag ttctcaataa caaggataga 360  
 atttcaaggg ttacgagacg aacgaagttt gtcgcccaa gacacttgcc nggccttaaa 420  
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<210> 6031  
 <211> 501  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-020-Q1-E1-H9  
 <400> 6031

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 gaagcggccg tgtgaccatg aggaagactg tcgccaagcc aaagggcca tcaggcagcc 180

catggtacgg atctgaccga gtcaagtact tgggtccatt ctccggcgag ccccgagct 240  
accttaccgg gtgagttccc cggtgactac ggatggaaaa ccgctnggtc tatccggccg 300  
acaaaaagaa cctccgcaag gaaaccttga gctaaaantt ttccaacaag caagaatggg 360  
ccaatgcctc cgggagcccc taaaggctgg cgttttttcc ctggaancta attgggctaa 420  
nggaaacggg agtnaaaagt ttcgggaaga aaaccnggtt ttgggtttca aaggggccgg 480  
gtttcaacaa gattctttca a 501

<210> 6032  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-A1

<400> 6032

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gagtttctaa cccattaaca aaagattcgc tttttcgaga agagcttctc atggtggctt 180  
ctccgagtcc atcgactcca cgagcaacca aaccgcagcc accgtcttct ccaaggaacg 240  
gtagttgtgt tatggcggcg acgagtttcg ggaacaatcc tgtggttcgt gttgtggggt 300  
ttgattgtga cagacgcanc agcaacanga gcatttcgac tcttgcataa agaagtagtc 360  
caatatgcat atatatatta accagngang agtattaaaa ggancaacta agaaaaggtt 420  
taagggtattg attaagttgg gaagggtttt gtttggtgaa aatgtngtaa aaa 473

<210> 6033  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-021-Q2-E1-A10

<400> 6033

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aaggaatgtc tggagatgta ctctgtacca tcacgaggat ttgagacaaa cccacgcggg 180  
 tttcaatcaa agcatcttaa tatagtcgat ccgcttaaag aaactaacia tcttgagcgc 240  
 agcgtaaagca aaggtaactt ttatcgtata cgaagtgcac tcacatatgg tgctcggaag 300  
 cttgggcaac ttttttgcaa gtcagatgaa accataagtt ctgagcttcg taagttcctc 360  
 ccctaacaat gctactcaag gcatgggaat tggcaaaagg cccgaatgtc catgaagccn 420  
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<210> 6034  
 <211> 517  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-A11

<400> 6034

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 ccgcgtcttc tcttctcctg tggcttcttc cgccgctgca cacaatccgt cctcagccca 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnaaga aaccttcag atcgagagc ttcacctcac atccgtctct 420  
 gaatccgaca agctctctgc tctacagcta ctgagcggg tagtcgtacc tgacccgcca 480  
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<210> 6035  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-A4

<400> 6035

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 ccgattatgc gttcgaccgg atactttcgt gcgggagaat catctctctg gatccggatc 180  
 tctccgccgc cggaaagctt tatcagtccg gtgctcgtct ggcgatgaga acgctccttc 240  
 gccatcggtg gtgatggact ccgatttcga cgccaagggtg ttccgtaaga acttgacgag 300  
 aagcgataat tacaatcgta aagggttcgg tcataaggag gagacactca agctcatgaa 360  
 tcgagaatac accagtgata tattggagac actgaaaaca aatgggtata cttaatcctg 420  
 gggaaattta ctgggaaaat ccctaaaaca taatnggttt tgctgggg 468

<210> 6036  
 <211> 493  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-B10  
 <400> 6036

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 caggccaaaa agtctaagga aaacttaaag gagatcacac acaagggtta ttttgatggt 180  
 gaaattgatg ggaaagcagc tggctgtatt gtcattgggtc tatttggcaa gacagtcccc 240  
 aaaactgtag agaatttccg agctttatgc actggggaga aaggaatagg taagaatggg 300  
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 ggaggcgatt ttacacatgg aaatggaatg ggaggagaat ctatctatgg tgagaagttt 420  
 gctgatgaga acttcaaact caagcatact ggtccaaggg tcttatcaat ggnaaatgcg 480  
 gtcaagatac caa 493

<210> 6037  
 <211> 510  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-B11  
 <400> 6037

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 acggtggttg tagttctggc aaaaacaagg ctaaattctcc aggacagagc acgagaacca 180  
 atcataattc cgcggcgggg tcttctctccg gtggtcgtca cgcacgtcag aataatacta 240  
 ctttgtttgt tgaaggaggt atttctctccg actaccgaaa agatcctaac ttttcgacgc 300  
 catctcgttg aggaagctct tcgggaaagg gattgagatc tagaagcata gagcgtgtaa 360  
 aagcttctgc ttccacgagt ggtccaagga aatgcagtgg taatacttat gtgtatcaat 420  
 atccttccat tgattttgaa gaaaggttgg atncaagatn aggagttgaa atgatnaaat 480  
 gaatgaaaat ccactggtgt ttgggaaatc 510

<210> 6038  
 <211> 509  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-021-Q2-E1-B9

<400> 6038  
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 actttcgtat tggattcact ccaagggaag gtttagtcat acattcggta gcatatgttg 180  
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 cttatggcga tcctaattgag ccacattaca ggaaaaatgc ttttgatgca ggggaggatg 300  
 gtctcgggaa aaacgcacat tcgcttaaga aggggtgtga ctgtctggga tctatcaagt 360  
 acttcgatgc ccatttcaca aatttcactg gaggagtga aacaattgag aactgtgttt 420  
 gcttgcataga agaagatcat gggattttgt ggaaacatca ggactggaga acaggattag 480  
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<210> 6039  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations

<223> Clone ID: LIB23-021-Q2-E1-C12

<400> 6039

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aaaagtgcaa tacatgagggc gtcgaggtgc aaaggtgatg ctggagggat ggataacaag 120  
agaggggatt cattgtgatt gctgcagtaa aatactcaca gtctccaggt ttgagattca 180  
tgctgggagc aagtcatgtc agcctttcca aaatatattat ctggaatctg gcgcttctct 240  
tcttcaatgc caagtcagag cgtggaatat gcagaaagat gctacgaatc ttgctctcca 300  
tcaagtggac actgacgggg atgatccaaa tgatgatgct tgtggtatat gcggtgatgg 360  
tgagatttg atttgctgtg atggttggtcc atcaacatat catcaaaact gccttgggta 420  
tgcaagtgct tccttcgggt gattggcatt gtccaaattg cacatgcaag ttttgtgaag 480  
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<210> 6040

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-021-Q2-E1-C5

<400> 6040

acgcgtccgc gcnatcttca tcacgggcaa atcgaatctc cgattatata tcaaatagct 60  
taccaaatacc gacatgaccc aggccctcgt ttccggagga ctataatgat cggactcttc 120  
gtgtcccgtc tcgattgcat ggggtttgag ctatgccgga gcttcgccgt ggagtcgcc 180  
gtggccgtgt tactgatgct gtagctccca atcagcttcc gcaaacacct acagaaaaga 240  
aaccgaagaa gagtaccgtt aaagctccaa aaccggttgc cggcggagtt acaggagttg 300  
cagagaggcc gaggactaga ttagcggcga ggaaattaaa ggaggaagat aaagagatac 360  
ctcaggagat tccggttggt gtgccgtcta aggatagcga tatcgataaa aacaagggta 420  
aagaggtagt cggtgaagaa gagaagaaag atatggctan tggtaa 466

<210> 6041

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-020-Q1-E1-H10

<400> 6041

acgcgtccgc ccacgcgtcc gcttgcttct tgctaaaggc cttgccttgt gcttcctcgt 60  
cctatctctc ttacctccgt aatttggtcg taagagaagt atcgtgatgg gtactgagag 120  
aaagaggaaa attagtctgt tcgatgttat ggacgatccg tctgctccgg cgaagaacgc 180  
caaaaccagt ggtcttcccg acggcggaat caacagtctg atcaataaat ggaacgggaa 240  
gccttattca cagagatatt atgacattct ggagaaacgg aggactctac ctgtctggct 300  
gcagaaagag gagtttctca aaacgttgaa caacaatcaa accctaattc tggttggtga 360  
aaccggtagt ggtaaaacta ctcagattcc acagtttgtg atagatgctg tggatgctga 420  
aacatcggat aagcgtaagg aantggttgg ttgga 455

<210> 6042  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-D1

<400> 6042

cacgcgtccg accattcctc cgaaagttta tagatttcac tctccccga actatacaaa 60  
attccctcaa aaggaaaaac taaaaagccg atcttggtt ttttgtttct gagtgcattc 120  
cgatacttgg aagcattctt tggtgaggct gattcattct catctgtgaa agtctttggc 180  
ttttgaagca atactatgga aggaattcag catcctatac ctgcactgt cgaagagggt 240  
tttagcgact ttctggtcgc tagagctggt ctcatcaagg ctctctctac tgatgtacag 300  
aagttttacc atcagtgtga ccctgagaag gaaaacttgt gtctttatgg acttccaaat 360  
gagacatggg aggttaatct tcccgttgag gaggtccctc ctgagcttcc tgaaccagcg 420  
ttaggcata atttcgcaag ggacggaatg cangaaaaag actggat 467

<210> 6043  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-D10

<400> 6043

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gaatctcggt ctcaaccgga gatctaaca atctctcact caatccgtac ctaaatcctc 120  
cgcangattc gtctgctccg atgacaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntct gtcctatgc cagctgtcgc 240  
tgatatctca ggtttgactc cttgcaagga ctcaaaacag ttcgctaaaa gagagaagca 300  
acagatcaag aagcttgaat cttctcttaa agctctacgc tcctgaatct gccctgggt 360  
cctggctcct caaatggctc aagattngaa gaaaaacaat ncgcaagggt cgacaaacta 420  
cggggaagtt agggattggt atgccgggtc aagacgggtt tacggcactt gataantg 478

<210> 6044  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-D2

<400> 6044

cacgcgtccg gagaaatttg gttgtntggt gacggaagct tcttcggtct ctcttctccg 60  
tcttacgatt gtcaacgcgt ggttccatct tcaattttgt ttctatttta gcagaagttt 120  
ctcgagcttc aaatactggt tcagatcaat caatcagtca atcatggcta gctctggaaa 180  
caagaacatc aacgccaaat tgggtattact aggagatggt ggagctggaa aatcaagtct 240  
tgtgctacgg tttgtgaaag atcagtttgt tgaatttcag gaatcaacca ttggtgcagc 300  
ttttttctct caaacattgg ctgtgaatga tgcgactgtg aagtttgaga tatgggatac 360  
agctggctcag gaacgatacc acagttgggc tccaatgtac tacaagggtg caactgctgg 420  
caataatgnc cttgacatta ctaatcaagn ctcatttgag aaggg 465

<210> 6045  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-019-Q1-E1-D3

<400> 6045

cacgcgtccg ccgacgcgtg ggtagaaata ctgattaccc ccaaaccga agaaacgatt 60  
tcgtctggag atatcaaaga ttgacaatg tcaccggatc atagaatgtc accggatcat 120  
agagatagcc atagaaagag gtctcgtcct cagtctgact acgatgataa cgggtggaagc 180  
aaacggagat atcgtggtga cgatagagat tcacttgtga ttgatcgaga tgacactgta 240  
ttccgatacc tgtgcccggg aaaaaagatt gggagtgtta ttggtagagg aggtgatatt 300  
gtcaagcaat tgaggaatga tactagatcg aaaattagaa taggcgaagc aattccggga 360  
tgtgatgaac gtgttattac tatctatagc cctagtgatg agaccaatgc ctttggagat 420  
ggagagaaaag ttctttctcc tgcgcaggat gctttgttta agattca 467

<210> 6046

<211> 527

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-D9

<400> 6046

gtaccgcccc gagaattccc gaatcnaccc acgcntccgc ncctttttgc aagagnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnngcgtg ttgtaacctt atccaaatct tacncattga gggaatngga tcatcacgac 180  
gcgtaaaaat tctgtatcgg aggaccgaga gatctccatc tctgtccag attcgattcc 240  
caccaatccc aatttcgtga aattcgtag ggttttagtt tgaatctcat ctcacgagat 300  
cgagtcgacc caggattang aagaagacaa gcgatgaaga tggcgacgaa tggccggggt 360  
tttcacaatc cggggctaag tccgcgttcn tgggtactca tccgaaacaa ttgggtgtta 420  
gtngttngcc tgaacaagnn accttggtt nagcaagntn acgggantca aaggtagccc 480  
gantntntc ccaaccantg gttgntnaca atgaagcggg cttgttt 527

<210> 6047

<211> 461

<212> DNA

<213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-019-Q1-E1-E12  
 <400> 6047

acgcgtccgg tgcattgtgt tccaagccca tatgttttagg aaagttatca gtatcacaaa 60  
 atctcactgc aagctaggac ttacagccac ctttgtgaga gaagacgaaa ggattacaga 120  
 tttgaacttc ctcatgtggc cgaaactcta tgaagccaat tggctagatt tagttaaagg 180  
 aggctttatt gcaaagtgtc agtgtgctga agtatgggtg cccatgacca aagagttttt 240  
 tgcagaatat ctaaagaaaag agaactccaa gaaaaagcag gcactttatg tcatgaaccc 300  
 taacaagtgc agagcctgtg agtttctgat tcgtttccat gaacaacaac gtggggataa 360  
 aatcattgtc tttgcagaca atctttttgc gcttacagag tatgcgatga aactccggaa 420  
 accaatgatt tatggtgcaa ccagtcatat ccaaaaggac a 461

<210> 6048  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-019-Q1-E1-E7  
 <400> 6048

acgcgtccgg ataaaccaca acatcacctg atcaagattt ggcatgtgctt taattaggaa 60  
 gtgtttgacg tgctcgatct gctcctttat gtcttcattg tcatcacaaa tttcttcaaa 120  
 cttaaataatc ttaaggacct tcaccggact tgataataga gattaacgaa ctttgtgatg 180  
 acaacgaaga cacagctgat caaatcaagt aggtcaacca ctttctgaag acaatgccga 240  
 atcttgaaca attgatgttg tgctacgata caccaaatca tttgatgata ccattagaaa 300  
 ttacatttat tcaccacga ttctgtatgt ggaaaagatg agacaattaa atatgcaaaa 360  
 ttaggttttg aatcttaaag tcattcttaa actcatgaaa ggcttccttt agtctagatg 420  
 acaaaattgt ttttgggaaga aacaaacggt tttgca 456

<210> 6049  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-E8

<400> 6049

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnagct ctttatcacc attgtctcct 120
ttcttctcta tgctccattg ttcttatctt caccagttcc tgaccctgaa tctgtcgttg 180
aagaagttca caagagcatt aatgcgtcgg ttgcaggaag aaggaagtta ggttacctct 240
catgtacgac cggtaaccca atcgacgact gttggcgttg tgaccctcac tgggagcaac 300
accgtcaacg tctcgtgac tgcgccattg gattcggcaa aaacgccatc ggtggccgtg 360
acggtcggat ctacgtggtc accgactcag gaaacgacaa cccagttagc cccaagcccc 420
gaactttaag acacgcccgt ggtccaanga cgaaccactc t 461
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<210> 6050  
<211> 464  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-F1

<400> 6050

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cacgcgtcgg cntngttggt agagaaaaaa ttccagttct tggattccgg cgacctcatt 60
ggtgaaagat cttcagagat tattatattt ctcttgaccg gtttcgatgg cggatggaaa 120
cgccagttcg cgttacgtga aattgaggaa agagcaggct cctgtcgaag aagatatcac 180
acccggtgaa ctcaatcagc ccattgatgt tcctcagttg aatgtccgca agtgccatga 240
atgtatgcaa gttctacctg aaacctatga acctccttct gatgaaaact ggaccaccgg 300
catttttggg tgtgctgaag atccagagag ctgcaggact ggtctctttt gtccgtgtgt 360
tctgtttggg cgtaacattg aagctgtgan ggaagagatt ccttggaccc aaccatgtgt 420
atgccatgct gtatgtgtcg aaggagtatg gcacttgcan cagt 464
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<210> 6051  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-F7

<400> 6051

acgcgtccga actcactacc cccagctttg gtgatttgaa ccacttgatt tctgctacta 60  
tgtctggtgt gacttgctgt ctgaggttcc ctggtcaact caactctgac ctccgaaagc 120  
ttgctgtgaa tctcatccca ttccccgctc ttcacttctt catggtgggt tttgctcctc 180  
tcacctcaag aggttctcan cagtaccgtt ccctcacagt ccctgagctc acccagcaaa 240  
tgtgggactc caagaacatg atgtgtgctg cagaccaag gcacggacgc tacctcacag 300  
cctctgccat gttccgtggc aagatgagca caaaggaagt tgacgagcag atgctgaatg 360  
tgcagaacaa gaactcgtcc tactttgtgg agtggattcc caacaacgtg aaatcgacag 420  
tctgtgacat cccanctact gggtcggaag atggca 456

<210> 6052  
<211> 509  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-019-Q1-E1-G10

<400> 6052

ctgtttacgc ctggtngtac ggcccga aaa ttcccngtc gaccacgcg tccggagaga 60  
aacaatcct tcttctaaaa tattcttcaa tcttcttctc gaagcttctc caaaaatggc 120  
gattacttct tctagaacca ccagatcaaa cggatctgct tcgctccgat ccaaatcacc 180  
gtccggtcga ttctgtggcg tttactcaaa ccgatgccg tcatcatctc cgtcgtcgtc 240  
aggtttcgct tcttcacaa gctcaagttt ctctcaccg tctacagcgt ttttcagcag 300  
ccacaatcag aacaaccacc accaacacag atctgcttct ccgacgcgtg tgaatctatt 360  
cacatcagct ccgatgacgc aatcgtttcg ttactcaatc gataacagat ttatatcacc 420  
gaatcgattc atcgctgttt cttccaacaa acctagcaat catcaciaag attccggatt 480  
ccgaggagaa natgtatgtg ctccccga 509

<210> 6053  
<211> 455  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-G2

<400> 6053

taaatcttcn catgctcagc ttctggtccca aatttttctt gatcttgtgg attcggtgat 60  
agctgatgta gcatctgagt gtcacgtggg ancacgacta ggacttgatc gtgatttgga 120  
tatagtagaa gaagagttga gattgtcagt ggaagcgcgt gcgaagatcg ctgatactag 180  
caacaacctc gaaaccaaca ccaaataatgt tgttgatata ttggggcaga ctacacctcc 240  
tgtagctagt gaagtgttca attgcatgaa ctgtgggcga caaattgttg caggaagggt 300  
tgctctcat ctgaaaaat gcatgggaaa gggaagaaag gctcgtgcc agacaaccag 360  
aancacaacg ggcngcacag aancggaatg cagcagcag cccaatcca cgatattccc 420  
cttatccnna ttctggctag tngagaacca attag 455

<210> 6054

<211> 469

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-G4

<400> 6054

cacgcgtccg cccaagcgtc cgcaaattat caactttggt tctttgatca gctttgtcat 60  
cttgaaatta tcaacgtttt gactaaattt aaagaacagt tgtgttcgtt cgtgccattc 120  
ttttgaatgc ttatactac atttcttctt gaaaagactt tgaatccaag aaccctgag 180  
gaagtaatcc cagtgaagag aagacgacaa agaaaaagga gcctataaag atccaaagct 240  
tcccttgtct ttagttctca tcaaaaaaat tgaaaaacgt ttggagttat tgagagagag 300  
agagatagag aaagatgttg gaaggcaaag caatggtgga agattcagac atgccaagtg 360  
aagatgcaga tgcaagctat ggcatttgct tctcaagctc ttgacctttt tgatgtcctt 420  
gactgtaa at ccaattgctg gtcacatcaa gaagganttg atgagagat 469

<210> 6055

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-C9

<400> 6055

acgcgtccgc ccacgcgtcc gttcaacacc aaaacatcaa ccctcgtgac agctaccatc 60  
agtctgttga tgaaatggct tctggcttag accatcttag tggaggcatt ggcaatatgc 120  
ttgatgatgg tgactcacat ccaatcggaa acatgcttcc tgatgatgag gaagagcttt 180  
tctctggtct aatggatgat ttaaacttaa gttccttgcc agctacgttg gatgacttgg 240  
aagattatga tttattcggg agcggaggag gtcttgaatt ggagactgat ccatatgaca 300  
gtctaaacaa gggcttctca anaaaggggt tttgctgatt ctaacgttga caatgttatg 360  
cctcaaaaca ttttcaaat gggagtggga ttcaatggct ggngaacaac cctaagggga 420  
acatccctca aaggccttgg ttggtccgga taataacaat t 461

<210> 6056

<211> 511

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-019-Q1-E1-A12

<400> 6056

aactgtctcg cctgntcgta ccggcccgaa aattccccnn gtccaccac gcgtccgc 60  
acgcgtccgg tcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnct attcttacgc tttcttcgat cgtcgatttg attttttccc 180  
ttccttctta tttttctcgg ttgaagtaga agataaagca tcgatacatg atggctgatt 240  
gataagagtt ttctccggag aggttcggag tttttttttt agaaaggaaa cattaataaaa 300  
gatggcagtc tcttttcttc gtcttccgag gtggttgtgt ggtggtagta aactaaaga 360  
tagagagaag aaagagtcaa ttcctaaagg atcttcttca cttagtcctt cactgaagaa 420  
gactactact aataagactg gttcctctc cttcatcaag tgaagaaaga acaaagagan 480  
ggatggattg gaagaagaag attaagatna a 511

<210> 6057

<211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-A6

<400> 6057

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acgcgtccgg gcnacccgaa aagctctgat caacgttcac cggatcattc gctccaccgc 60
cgtggttggc cggagctcta tcattcctgc cgccgctaac cggtcataac ctattatatt 120
ccggaatgga gttgatttgg gggcgagatt cttctgtgag aacactgcgt ctgcccagaa 180
tttcgatatt gatctctcta acgaagagaa taagagaaga acgatcaaca gattgtttgta 240
taggagcaag caaagagggt ttttggaaact tgatcttggt ttggggaatt gggttgagga 300
gaatgttaat tccatggacg aaaatggtgt taaatcccta attcatgtcc tcaatttggga 360
aaaccctgat ctctggaaat ggctaactga acaggaacag cctccggaag cagtgagttc 420
aaatccggtg ttctcggcgt tacacgagaa atcat 455
```

<210> 6058  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-A7

<400> 6058

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acgcgtccgg agagagactc tgtagaagaa gcacatgaat tggttctggtt ttatgatagc 60
tttctcttaa gaagaagaag aagaaagata aattaaaagg gtggttctga gttttaagga 120
ttattgtttg annnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntta 180
tctgattgct ctaatgaata tgagaagctc gttgttcgga tgaacatgcc cagggtcgta 240
attgacaatg gagtttgccc taattcaact gtcgtcaaga ttgatagtgc aagaagccca 300
ggaatattgc ttgaatctgt acaacttctc actgatatga atctctggat caaaaaagct 360
tacatttcct ctgatggaaa atggaatatg gatgtttttc atgtgagcga tcttaacgga 420
gacaaattaa ccgacgagaa cctaatacgt tacatt 456
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<210> 6059



<211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-B1

<400> 6059

nacacgcgtc cgccggaagg cggcgaaact gattgcaact ggctcaggac atttgataaa 60  
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 gaaaaggagg ttgtcaaagg ctganaagga tagtgaagtt caccctgaca ccttgnaaag 180  
 aatcagaaga gtgnagagga tgaccaanat gacagagagt gtagcaaaca gcatactgtc 240  
 tggagtcctt aaagtttcng gattcttcac aagttcagtg gcaaacacca aagtangaaa 300  
 gaaattcttc agccttcttc ctggagaatc atccttgcac ctcttgacgg attcaataag 360  
 gtctgtgacg ctnttangtn cctgggaagg aatgtaatgt caacctcttc cactgttaca 420  
 accgaacccg ttgatnaca 439

<210> 6060  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-B10

<400> 6060

gcctgtntgt accggcccga naattcccga atccaccac gcctccgcna tctcaaaaac 60  
 gctcctggag tgtcaagaac agagatttgg gtcggaatca agaaagtaat cgagactttg 120  
 caggacaact atccggaatt cgtgtccaga aacatattca tcnacgttcn attctgggtc 180  
 tacgccatga gagctgtcct ctgcgccattc ttaactcaac gaaccangag caagtttggtt 240  
 gtggctcgtc tcgctaaggt cagagagact cttctcaagt acattccagc tgatgagctc 300  
 ccagttcagt acggtggggt caaaacagta gacgataccn aattctccaa cgaaactgtc 360  
 tctgangttg ttgttaagcc ctggattatc tgnnancatc gaaatccan ctctgagac 420  
 tganngtnca tttggtattn ggacataacc ggttttnggg aatgggaagt tgaagtnc 478

<210> 6061

<211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-B2

<400> 6061

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cacgcgtcng ggtgaatgca gtaagagacg gcatgaactt agttccatat aaatatatca 60
tttgcaggca agggacccca ggaatggata aggccatggg gattagccat gactcagccc 120
ggacgagcat gcttgttgtc tctgagtta tcggctgctc gccttctttg agtgggtgca 180
tcagggtgaa cccatgggat gtagatgctg ttgcagaagc ggtaaactta gccctcacta 240
tgggtgagac tgaaaagcga ttaaggcacg agaaacacta tcaactatgtg agtactcatg 300
atgtgggtta ctgggcaaag agctttatgc aggatcttga gagggcatgc cgggagcatt 360
ataataaacg ttgttggggg attggttttg ggcttgagtt tcagagttct gtcactgtct 420
cccaggtttt aggaagctat cctatcgatn acattgtcct cacgtata 468
```

<210> 6062  
 <211> 506  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-B3

<400> 6062

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gttgcctgcy ccgnttggcc tggcattccn gggtcgaacc acgcgtccga naaaatatgt 60
annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnccgc tggacgtcga aacaacctgc 180
ctcgtccaaa cctcagaaga cgatgtaagg tcaccgcttc acgggctaatt attgaacaag 240
aaggtaacac agtgaaagaa ccatttcaga atattaaagt aaagggatac ataacggccc 300
aagaagagtt tctggagggc ataacttggg cgagaggtct cgatgacatt gctgatatcc 360
gcggcagatc attgctcgtc gagcttatta gcgccaagac tgaccagcgg attacggtag 420
aagactacgc acaacgtgta tgggccgaag cccctgatga gaagtacgag tgcgagtttg 480
agatgcctga agacttggac caatgg 506
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<210> 6063  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-B6  
  
 <400> 6063

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angcgtccgc ccaagcgtcc gtttgattct ggtcgttatc cagatcagag aaatccgtga   60
tccttttttc tctctcactt tcttctctga aataggaaaa acanaaaaaca aatctgataa  120
tcgaaacnga tcactcactg ctgattccgt aacctaaan atgtcgg nag cttcttctag  180
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gcgggagatc cggatccgag acgcttcagt tctggagatc agatggtcct gggacgggtct  420
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 <223> Clone ID: LIB23-019-Q1-E1-B8  
  
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acactaccac caaagtgtca ttacattcc aaaaccaact tgggggaacc atcccaaagt  180
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<210> 6065  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 tgatgaaaga gtacaaagaa cctccttgct caccatccaa gttganccct aaaccctgga 420  
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<210> 6066  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 tatatgaggg tgtaagaaaa gtgtatgtag gacaagatat caatcgtatc acttacgtca 180  
 aattcgagta tgtgaaggaa gacggccaag tcgtaacaac tgaatatggg aaaatcattc 240  
 aacaacccaa agagtttgta cttcaatatc cggacgaaca tatcatagcg gtggaaggaa 300  
 actatcgcg agtggtctta tgtgccacag aggtgatcac aaacctcgtc ttcaagacct 360  
 caaagggtag aaagtcacca ctgtttggtc caaacttgct tggaattacg accggtacaa 420  
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<210> 6067  
 <211> 502  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-019-Q1-E1-C12

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 cgcaactgcc gcgatctcag ccgcgcttga atctcagcgc agtagaaaan accgaggaag 180  
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 atcttcttcc cgttctactg tcttatcttt aacagcggcg ccgtcatcgc gacagacctt 360  
 cactcactta cgccgagctt tatcggtcga tgacgtcgat gcgcgtaatt cactcgatga 420  
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<210> 6068  
 <211> 457  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 gaggcttcgc cacaagcgag attttatcca gttcctcgat agtatgtata tggaggaaat 180  
 caaggctttg gtacatcaaa agcgtcaccg tctcattatt aatatctctg acattcacca 240  
 ccacttcagg gaagttgcct ctaggatact gaagaatcca aatgagtata tgcagtcatt 300  
 ttgtgacgca gccactgaag ctactcgtgc tattgaccct aaatacttga aggaaggaga 360  
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<210> 6069  
 <211> 538  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-H8

<400> 6069

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tgctgtgtcg gctacctcgc ttgctcctgg ctttcgattt catccgactg atgaggaact 180
cgtgagctat tacttgaaga ggaagggttct gggtaaacct gtacgcttcg atgcgattgg 240
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cnggtaaatg gggggccaag ggattnaaat tcngaagcaa anntaannaa aanggggtta 420
aacgggggaa aagnnaactg gggaaaaaga ncangnggaa aaatnccgcc ccggggaata 480
attcaanttt gcctccgggt aatgaaaaaa aagaangcct tggtttttcc aacaaagc 538
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<210> 6070  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-018-Q1-E1-F8

<400> 6070

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tccgcaacaa tggcagttac agatactgaa agtctctatc ttggggaaat tacttgtggg 180
accttacttg agaagttgca ggaaatctgg gatgaagttg gtgagagtga tgatgaacga 240
gacaaactgc ttcttcagat agagcaagag tgtcttgacg tttacaagag aaaagtcgag 300
caggctgcga aatcccagac tgagcttctt caaaccttgt caaatgctaa tgctgaacct 360
ttccaacctc aaaaggggcc ttgggganaa aaagccta at tggnaatccg gataagtctt 420
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<210> 6071  
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<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-018-Q1-E1-F9  
  
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tggtatctat gtctatccat taaactaatt atatataaac ttattttctg gccacaattt 240  
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cttgagtgat ccacgtggca ccagtcctca acccncg 457

<210> 6072  
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<212> DNA  
<213> Arabidopsis thaliana  
  
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tcgtgagttc tctatagaga ctataaggaa cgcaacttca ggatttgcag cagagaatat 180  
agtttcagag catggtgaga gagctcctaa tgttgtctat aaaggcaagc ttgagaatca 240  
aagacgtatt gctgtcaaaa ggtttaaccg gaaatcttgg gctgattctc gtcaattctt 300  
ggaagaagcc aaagctgttg gtcaattacn gaatcatagc atggcaaatac tacntgggtg 360  
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aaaacaacct ttccaccggg agtcacanc c aatgaagtng gcgaatgcga ctgagaagta 480  
ncttttgcac aatgctcaaa gcgctanagt attgtacc 518

<210> 6073  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-018-Q1-E1-G3

<400> 6073

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ccgctgggtc atattctctc ccgccagagc caagagaccg actgatttca aatccaaatc 180  
tccccagaac cctaatecca aaccttctc atgcccattt tgcacgggtc gtgagcaaga 240  
gtgtgccccg gagttatttc gtgtgccaga tnatgaccgc aattggaaac tccgggtcat 300  
cgagaatctg taccgggtc ttagtaggaa tcccagaaac caatcgaacc aacctgaaaa 360  
cgggaanant tcgngaatat cccgntccga ttccacgaag tnntgatnga atcccctgtt 420  
caatcgantg agngngggcg anacgattc ggtgggtatc ggcgatatct 470

<210> 6074  
<211> 514  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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ctttttgtga tcagaaatgg atcgagctcc ggtgaccaca ggaccgttgg atatgccgat 180  
tatgcacgac agtgatcgat atgacttcgt taaggatatt ggttctggtg atttcggtgt 240  
tgctcgtctt atgagagata aactcactaa agagcttggt gctgtcaagt acatcgagag 300  
aggagacaag attgatgaaa atgttcaaag ggagatcatt aaccacaggt cactaaggca 360



tcctaataatt gtcagattta aagaggtcat ttgacgccg actcaccngg ctatcaanaa 420  
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 aagatgaggc tcggttcttc tttcagcaac ttct 514

<210> 6075  
 <211> 475  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 6075

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 cttaagcgaa gaacaacttg aaaaggcagc agaaaaatat gcgaagcaga ttgtgaggtt 180  
 tactcagcac aatttgctga ggatataccc aaaaggaact agagtcacat catcaaatta 240  
 caaccggttg gttggctgga gccacggtgc tcaaattggtg gctttcaata tgcaagggtta 300  
 tgggaagatc atttgtggct aatgcaggga atgtttaaag ccaatgggcn ggatgtggct 360  
 acatcaanaa accctgaact tcggctgaaa attggtcccg gtaatgncat atttnaccca 420  
 aaaactactc tacctgtgaa aacaacactt aaggtaactg tatacatggg aaaaa 475

<210> 6076  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 agagagtgca tttcgatcca cattggctcag gctggtatcc aggtcggaaa tgcttgctgg 180  
 gagctgtact gtcttgaaca tggcattcag cctgatggcc agatgccgag tgacaagact 240  
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gtccacgtg ctgtctttgg tgatcttgan ccaactgtga tcgacgaggt cagganngga 360  
 antaacggta agtttncaac cngnaaacca tcagcggtaa gaagatgcag taaaaattcg 420  
 cccgtggcaa tacacaatgg gaaagaattg tgact 455

<210> 6077  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 6077

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 aaagcacaag tagaggaatt ttacgtgac acatggaact caccgaaaga acaaattctt 180  
 gagatgccaa caggaggagc tgcgataatg agagaaggac cgaatctatt gaaactggcg 240  
 aggaaagaac agtgtttggc tttaggtacg aggttgaggt caaagtacaa gatcacttac 300  
 cagttttaca gagtgttccc taacggagag gttcaatata ttcacccgaa agatggagtt 360  
 tatccagaga aagcgaatcc aggaagagaa ggtgttggac taaacatgag atccatcggt 420  
 aaaaatgtta gtccattga ggtaaattc actggggaaa caatccttaa ganttgttag 480

<210> 6078  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 cgtcgtcttc tgcttctgct taagcttctt catcanttag ctccagaggc ggagctttct 180  
 tctctctctg tggacgacca tggcggcgga cgacggcgac cccactaaat tcgctgcaat 240  
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ttctccgcgt cnaagtgatc ccgaatccga cccaactcag tttcttcaga tctcctacaa 360  
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<210> 6079  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 gatagattcc tgnctntaaa gacngttaac aaggcaaaaa nctnaantg tttngngntt 420  
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 ttacattacn ggta 494

<210> 6080  
 <211> 471  
 <212> DNA  
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<210> 6081  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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<210> 6082  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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gccagctcgg aaacaacctc ccgtcacctg ccgactcagt caacctcatc aagtccttaa 240  
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cataatcccc ganaangggg tccattttaa ancctcccg ttttaacaaa ncaccaagat 420  
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<210> 6083  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6083

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aaccctagct ttgacacaga cgcaatttca tcgcatcatt ttgcaatttt cctttactga 180  
tctgtcacca cctcttgaat ttcgaaacca tggctaccgc agctctcctc cgctctattc 240  
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agctcgaagc ctgctggaaa cgatgtcatt gggattgat ttgggtacta ctaattcaag 420  
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<210> 6084  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-B3

<400> 6084

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taatggagta gaagcgcttg atcttaaaac cctaaaaaag cttgtcctct ccttcgagcg 240  
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 cggaacttta accggacctt gttgcttcca atacggttcc ttcgattgtc aatctcctct 420  
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<210> 6085  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 cgttaactct tcttcttcgc gttccaaaga tatgaatcta gagccaaaaa agaagggttaa 240  
 attaagagaa gactggagag aaaagtccag acctatccca cccggaggaa cctatccagc 300  
 taaagaccat tgcagtcagt gcgggctatg cgacacctac tacattgccc atgtgaagga 360  
 ngcatgtgca tttcttggag atggaatgtc aaaggattga gagcttggaa cctgttgtgc 420  
 atggtagagg aanga 435

<210> 6086  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-C10  
  
 <400> 6086

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 gcgtgggact nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatatttc tcaatgtctc 180  
 ctctcccaat ctcccatcgt ctctctcagc ccacgttctc ttcctttctc ctncnactgt 240  
 ctcaagctgg nagttctaata acatcagtggt cattcctcan tgccttcana tcagangata 300  
 tcattgctcg aattggncata tgggtggcanc ttatnagggc tgttgtagtt gtacctgtct 360  
 tcaagttcct ggtgcttcta tgtttgggtca tgtctgtcat gttcttcgtt gaggttatgt 420  
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<210> 6087  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-C11  
 <400> 6087

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 gtttggggtc acgccgtgtc tagggacctt atccattggg tccatttgcc catagccatg 180  
 gtcgctgac aatgggtacga ctccaacggt gtgtggaccg gctcagccac atttctccct 240  
 gatggctcta tagtcatgct ctataccggt tccaccgaca aagcgggtgca ggtccaaaac 300  
 cttgcctacc ctgaagaccc caacgaccca cttctgttga aatgggtcaa gttcccgggg 360  
 aacccggttc taatacctcc gcccggtatc ctccctaagg acttccgtga cccaacgaac 420  
 tgcattggaaa gacatcaaga aggaaaatgg cggatnacga attgggtcca agctcaaaca 480  
 aa 482

<210> 6088  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-C12  
 <400> 6088

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catcatcaaa ttggagaaga taaccgaaga aaatcggtccc ccttccgccc tgatcatcat 120  
ctcaaccgac ggtctcaaca tctgtgactt cgaacataat cggcgatttt gatgaaccaa 180  
atcggagaga gaagattaat aagatagttt tgaggaagaa atcacaatta gagcttaaag 240  
caagaataaa tcacaatcac aagatgagaa ttttccggac aacgtagtga taatcagtca 300  
atcggagaaa gaaggtgacc cgagtgttat aaccatcaat tgtcctgaca aaacgggtct 360  
angttgtgat ctttttcgta tctctctctt cttcggcctc aacattgtct gangangtga 420  
ttgggaaacc aaacacgaga tggatct 447

<210> 6089  
<211> 511  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-C2  
<400> 6089

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attaaagtaa agtatctctc tcttttttct cctacgtact ccatagtgat ggcttcatcg 120  
cttctgacat cttccgttat gatccctacc accggttcca ccgtgggttg ccggtcagtg 180  
ttaccctttc aatcttccct gcactctctc cgctcgaccc attcgtaaa gaaccccgca 240  
ttgttcatct catgttgctc ttctgtgtcc aaaaatgcgg gcaactagtt ctactgatct 300  
caaaccggtt gtggaacggt ggccggagta cataccgaac aagcttcccc gacggaaact 360  
atgtgcgtgt attcgacang acgctccgtt gacggtgaac aatctcctgg gtgggattcc 420  
ctcaatcccc gccgcaaaaa gctaagagaa ttggcccgac aagctcgctt aaaactcccc 480  
aagtaagaca tcatgggaag tcggttttcc c 511

<210> 6090  
<211> 525  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-C4



<400> 6090

acgggtcggc cacgcgtccg aaaaaaaaga gatggagaga aacacgccgg tgagaaaccc 60

tcacacttcc accgccgatc tgctttcttg gtcggaaann nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnaccaagc cgtccgatgg aatcagcaaa gattcctaag 180

gcgggtgtca agattaacaa gaatngaaag aaacccaag tccgccttaa ataaagccta 240

aaaagaattt ggttcaangg gtaacaaagt tnaaaaaaga agaatngaac tgggtaantg 300

gggcaataat tttaactgga atnaagggga aaaantttgg ggattctgga aatcccgatg 360

gctaactaac tggatnccaa aagaactggg actccgttac taacaagcaa gactcctgaa 420

tgggaatgag tcaagatata cttcaantgc tgacggtaat gtttcccccg aagaaaacaa 480

ncaactttaa ccgaagggtg aaagcaaaga agagctganc cggga 525

<210> 6091

<211> 471

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-017-Q1-E1-D10

<400> 6091

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tgttganccg gagtcaccgc gtgaatcatc ctcaccggag agatctgtgc cactccgccg 120

ttccaaccgc caagcaaacc gtaagggaga ctgcgtcaga aaagccaccg agaanggtaa 180

tcggaatct tctcgtgttg ttatgtgant gtgttatttg attattaaac catgatctaa 240

ataaaaccag ttaaaaccaa tgaatgtttg ttanttaga ggttacntga aattgtgtcg 300

tgaggaacaa gaagatgact tcattcattg gtttagttgt tanagtaccg gttaattgcc 360

aaaccggaag ctatctttca cgtgaatgca tggatccaat tgtggacgta gtgttacgtg 420

tagtaantga atcannattn aantatnana tttggttgga ntaatttaac t 471

<210> 6092

<211> 464

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-D12

<400> 6092

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gggcgacgc gtgggaaatt ttttcccaat cnatggaagt gcctaataaa accacgaatt 120  
tagccgatct ccggcgacca ttggtggttc cggttgtctc ggagcgtaaa cctccggcag 180  
acgtcggact cggactagag agtgttttaa cggagcgtag ccttccgtac cggaggcgcg 240  
tgtacttagg ggcattgata gagatgaagc tacttttccg gttggcactt ccggcgatac 300  
ttgtctatct agtcaacagc ggaatgggta tttccgctcg gatcttcgcc ggacatctcg 360  
gtaaaaatga nctcgccgcc gcgtccatcg gaaacaagct gcttcaatct cgtctatggc 420  
ctcatgttan gtatgggcag tgcagtcgaa acactatgtg gaca 464

<210> 6093  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-017-Q1-E1-D3

<400> 6093

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ggctgctttg tcgtctttga tcacgaaacg aagtcgtgct gataagagca ataaagggga 180  
tcgctttgag ttagtctttg attatctcaa gctacttgac ctggaagaag acattttaaa 240  
gatgaatggt attcatgtcg ctggtaccaa aggcaaggga tccacatgta cctttacaga 300  
gtctattatt cgaaactatg gctttcgaac tggactcttc acttcacctc acctcattga 360  
tgtccgggaa agatttcggt tggatgggtg ggacataagt gaagagaaat ttttgggata 420  
tttctggtgg tgctataaca ggctcaagga 450

<210> 6094  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-017-Q1-E1-D5

<400> 6094

acgcgtccgg tttctgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
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ctaatacatgg gttttatcga tggaaagtgg gcaccaatga tagtcttaac tgtttctaac 180  
atgattgcgg gaatgggttaa tgcttttagt aagaaagttc ttgatggagg catcaatcat 240  
atgggttattg ctacttatcg tttgggtata tctactcttt tccttcttcc agtcgcttat 300  
ttttgggaac ggaaaacaag accaaagcta actctaagca tctcatgtca gcttttcgtc 360  
agtgcctttt ttggggcgag cttgatgcaa tattctactt gccttggact gtccacacg 420  
tctgcaacgc tggggatctg ctttctgg 448

<210> 6095

<211> 492

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-017-Q1-E1-D6

<400> 6095

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tacggtgaaa aggagtggta ttttttctca ccaagagatc gaaagtatcc aaacggttca 120  
agaccaacc gtgcagctgg tactggatat tggaaagcta cgggagctga taaaccaata 180  
ggtcgtccta aaccggttgg tattaagaag gctctagtgt tttactcggg aaaacctcca 240  
aatggagaga aaaccaattg gattatgcac gaataccggc tcgctgacgt tgaccggtcg 300  
gttcgtaaga aaaacagtct aagattggac gattgggtat tgtgtcgtat atataacaag 360  
aaagggtgca tcgagaagcg acgaagcgat atcgaggacg ggttaaagcc tgtgactgac 420  
acgtgtccac cggaatctgt ggcgagattg atctccggct cggagcaagc ggtgtcaccg 480  
gaattcacgt gt 492

<210> 6096

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-B1

<400> 6096

acgcgtccgn gctctcccaa aaactcatct ctcaccacgg tctcaaacca agttcgatct 60  
aaaagccttt tccttttagat tctctccaac aacaaatctc tttgaatcac tcagtcgatgt 120  
cggttttact tcctctctgt ctgattatct ccatgttcac ctattcaaac gcagcgtatt 180  
gtctttgcaa agaggggaac gagcaagtgc ttcagaaggc aatagactac gcttgtggaa 240  
atggagctga ctgtaccag atccaacca ccggagcttg ttaccaacct aacaccgtca 300  
aaaaccactg tgacgtcgcc gtcaacagtt actaccaaga aaaaagcttc ttccggtgcc 360  
acctgtgact ttaacggngc cgctcccc tctactaacc ctccgtcaac tgcttcaaac 420  
tgtttaactg gttcaaagct ctagtggcac tccctaac 458

<210> 6097  
<211> 449  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-F8

<400> 6097

cacgcgtccg caaaaacaaa tagaaaaaaa tacaataaaa aaatgtcaac ccaacagatg 60  
aaacacactc cacaaaactt gcaacagcaa ggacaaggac ttggtgagca aggaagagac 120  
actcaaggac ttggaagcac acaagagttt ggacaacgtg atagacaaca ggatcttgg 180  
agccaatttg ataaaactca acaacaagga caacaaggac aacaaggaca acagggacaa 240  
caaggtcaac aaggacttca aggtcagcaa cagtggggag gtgctcagca atttgatcaa 300  
caaggaggaa agcaacaaga tttgggacaa caacaatttg gatcaactca gcaaaagaac 360  
caagactttg gacagagatc ataaagagat gaagcaacga ngcgatgatg atctcccaaa 420  
aagaagaaag tctgtttaat tgatgtgtt 449

<210> 6098  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-F9

<400> 6098

acgcgtccgc tcttctctgt ttctctctct tcttcttgca gttttggttt ggaagaaaga 60  
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 ttttgtgtga ttcaacggcg acatttcaat ctcttccacc aacggttcct tggagagaac 180  
 cttctacagt cgccgtgtct ctogaagatg tagatcttgt tgaccaatcc ggggctgctg 240  
 cggcggtgga cgcggttgag aagacaatgg gccgcgcgaa ctaccaccgc cttgggggatg 300  
 aagtttttgg attggaggan gcncaaagac ggcattctgan ccggctanaa gcnanaaggt 360  
 gtgnttgtgg aaaacatcct gggtaaaaga atgaaacccc cgggcttccg ttcgttttcc 420  
 ggtcncncnc ncaanggggg gaaaaaggtt tcctcngac ggggaaacng tttggttcaa 480  
 cc 482

<210> 6099  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-G10

<400> 6099

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 gtcgatgact ctgtcaaacc cgaagtcgct ctacgtcctt ccacgaagac tttctccgat 120  
 caatacctcc gctttcacat ctacctcttt ccgattgcgc accaaatctt ccttcgattc 180  
 aatctcgttc tcgtcttcaa ctcccttctc cgctcctcg ctctccttc acacgtctta 240  
 taccaaaaga aaccaccgct gtttctctgt tcaatccaat gctgaggtgg ttactgaacc 300  
 gcaatcgaaa ataacacaca aggtgtatct cgatataagt gttggcaatc cagtggggaa 360  
 gttagctggg gaggattggt antggattgt atggtgatga atgttcccca aactgtggag 420  
 aacttcgtgc tccaagcaca ngtgaaa 447

<210> 6100  
 <211> 472

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-G5  
  
 <400> 6100  
  
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 gagatccaat ttaacattac ccacacaatc atttgattat ttctctctct ccgtatctgt 120  
 gtctctcttc tcttgatctt ttagtggtct tgctttgtcg cttcaacgct taagtttgga 180  
 tttgtgtgag tctgcataat catggcgagg aagatgcttg ttgatggtga gattgataag 240  
 gtggcggctg atgaagccaa cgcgacgcac tatgattttg atttgtttgt catcggtgcc 300  
 gggagtgggc gtgttcgtgc tgctaggttt tcggctaata atggcgctaa ggttggtatt 360  
 tgtgagcttc catttcaccc tattagctct gaggagattg gaggcgttgg tggaacctgt 420  
 gttatccgtg gttgtgttcc ctaaaaagat tctcgtctaa ggagctactt ac 472

<210> 6101  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-G8  
  
 <400> 6101  
  
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 gaagggaagg aagaggctgt gagggttaag atcaagatga caaagcatga agctcaacgg 120  
 ttgttgctga aatgcaaaaa cgacagcgtt ttaaagttgg agcatcttat ggaccagatc 180  
 gcacacgtcc ctgttcatca gttcaagtc gctatggtga tggttggttg taataatgag 240  
 cgacaaggaa atggctgctg gttatcccag ctggaataag ttaatcttga gtttttctat 300  
 caaatTTTgt agtttttagag tagaaactat ataaatttac gtttgtatat atattttgta 360  
 acagattaat agaagtaaca tgattttgtg gaattttttt tgttgctgct tcataaaaga 420

<210> 6102  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-H1

<400> 6102

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ccattttttcc gcttcaatcg tctccgatct gatttcatca gcttcgtacc gctccgggtca 120  
tgaatccatt ctcttccggc acgcgtctca gcgacatgat tcgagctata cgtgcgagta 180  
aaaccgctgc tgaggaacgt gctgttgatga ggaaagaatg tgctgcgac cgtgcttcga 240  
ttaatgaaaa tgaccaggac tatagacatc gggatctagc gaagcttatg ttcattcata 300  
tgcttggtta ccctactcat tttgggcaaa tggaatgctt gaagttaatt gcttctcctg 360  
gatttcctga gaagaggatt gggtatcttg gattaatggt gcttcttgat gaaaggcaaa 420  
gaagtattaa tgcttggtcaa caactcgcct gaagcaagat ttgaa 465

<210> 6103  
<211> 451  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-H10

<400> 6103

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caatcttctt cgtctcctct ctctttctct ctttttgctg tttctagctc ctctctctct 120  
ggatctcgcc ggcgaaccgt ttctcttggg tgtaaacagt agcaatcaag ctatagaatc 180  
tcagatatcg ctgaattagc tggtggattt tatccgcctt ttcttcgtta tccggggctc 240  
gggtataagg tttcatcgtc ttatttcac tgtaaatggg ctgcttcac tcaaaggcag 300  
caaaagaatt tcgaggacac gaaagacctg ttaagcttgc ctctgaaaac agcttttagt 360  
gtgagtgaag ttgaangcat taanttgagn cattcaagaa cataagcagt ttcggttggt 420  
gatgatggtc tggattaaca agggangagt t 451

<210> 6104  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-H11

<400> 6104

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cgaacgacaa tggagatttt ctactacttg gtgtttgggg ttttgggtct cgtcgtcgcg   120
gcgttggagc ttagcaagaa caacaaggat cgaatcaaca cttcttcagc tttcaattct   180
ttcaagaaca attatctcct tgtctattcg ctcatgatgg cggggtgatt ggttgcaggg   240
tccatatgtg tactaacctt atagtactta tggatttggg aaaaggggga cattgggnca   300
agcttttcaa ttgctgggnt ttgggntccc tcnaagggtg tttgggtacc aaccttgggt   360
ccnctaagcc gacaaaacaa gggtcgtaag aagggcattg gttaaccaan ngnantaccg   420
aatanattga gctggaacac caacaatcc ccccaaanat a                           461

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<210> 6105  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-H12

<400> 6105

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acgcgctccgc ccacgcgtcc gttcagggtt gccatttgcg aaggcctatc aagtgggaga   60
gcgcaccaac tttcgcattc ccgtctgcta aaagctttgt gttccctgtg gttagtggtc   120
aaacgatgga actagctata gctcaatttt ggtcaagtgg cctcggaagt cgtgaaccaa   180
ctatcgttga ctttgagatt gaattccatg gagttgggtg cgataaagaa gaattgttac   240
ttgatggaag tgaagcacca ataaaagttg aagctgaagc actattggca tctgaaaaac   300
ttgttcccat agctgtcctg aacaaagata cgagttccat atcaacctaa tgatgcacaa   360
ctgaaagact cctatcaact gggccgttga tagactactg tcgggggcaaa cagatactaa   420
cattganctt aacctacaag ttcaaaatta agaaga                               456

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<210> 6106  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-H8

<400> 6106

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aatacaaaat ttatacagaa caaccacaaa ttctgtctag tttagttaaa cgtgttaaaa 120  
tagtcacgca atgctttttc tatttttaaa aattaataag ctctgacctg tacgcaacca 180  
aataaaacac taaaacttat ctgtgatcaa cttagctctg tataaaaaatc ttctctctct 240  
ttctttctgt ccaattctct acagagaagt cttagctttt gcaaaatcat taactaatct 300  
ctgttttgat gactagataa cttggatgta ggattattat acctaaattc tttctttcca 360  
tgcatttatg tcggttttga catctttgtt ctcttaagtt taaaagatat caatattaag 420  
ttatcntcaa tctttgacaa ttgg 444

<210> 6107  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-017-Q1-E1-A11

<400> 6107

tcccgggctt ttcccaaata gtactttttt ttttgtttg ctttcttata gaaagaagaa 60  
ctcaaagcac agagagaaga tgagcgaaga acaaccacac gccaatctag cggttcccg 120  
gtttaaaact gagaaagagc ccataacgca aacacgaaat ggtcaaagta gcgtttggcg 180  
tttcggtgga agtgataagg cagcgaaagc atccaccgta acgcttagag gtgtcatcta 240  
catgctcttc gacaactgcg gcaaagacgt caataagacc attttacctc tcggccacgg 300  
tgacccttcc gtctaccctt gttccgtac ctgtatcgaa gctgaagacg ccgtcgtcga 360  
cgctcttcgc tccggcaaag gcaattctta cgggtccccg agctgggatt ctccccgcaa 420  
gaacnaaccc gtttgctgat tataatgaan ccgaga 456

<210> 6108  
<211> 451  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-A2

<400> 6108

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acgcgtccgc agcnactttg gatggaccaa gtccacctgt tggatgcattg agcagtgtctc 60
ttagtcgggt acagtctaac ccggctctca gagagttgag agaagtcgca aagggtatga 120
caaagcaaat aggcggacca atgcatcagt tggcggctaa ggtagatgag tatgctcgag 180
gaatgataag cgggactgga tcgtcactgt ttgaagaact cggctctttac tatattgggtc 240
cagttgatgg gcacaacata gatgatttgg tagccattct taaagaagtt aagagtacca 300
gaaccacagg acctgttctt attcatgtgg tgacgganaa aggtcgtggt tacccttacg 360
cgggatagag ctgatgacaa ataccatggt gttgtgaaat ttgtttcanc aaccgggtag 420
acagttcaaa actactanta agaccaatcc t 451
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<210> 6109  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-017-Q1-E1-A4

<400> 6109

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cctcagttat ctcttatctt ctgttgggct accaaaacga agcagtactt ccattaggaa 120
gcaggagggt cattcaaag gtctgttct tgatgatact ctacttcagg atccagagat 180
aatggatgca attgagaatg aaaagacggt tcacaaaacc atgagtatat acaatgtana 240
tcgttctgtt tgccgtcgga ttgctggggt gattgcaaag aaatacgggg acactgggtt 300
ttgctggaca aactgaaacc taaacgttca actgggaaat gctgggcaat cctttngcaa 360
ttgtttccct aaactccttg gaaattgaaa taataacgtt cttggttggg ttgaanccaa 420
acgaaccaat nttgggaaaa ngggaattgg ccgggaaagg ttaaagttgt naa 473
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<210> 6110  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-F7

<400> 6110

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tgcggtggaa cgatggcgac ttcagcggcg tagtcttgag agtctgcctc ctcaccttgc 120  
tgatgctctc ctccgtcgcc tctcaaaaaa gcggtcttctt ttcccttcgt tactcgaagg 180  
attcaaatat tctgtagaga atatagatct ccgaggcaaa agctcagtta acgcagaatg 240  
gatggcttac attggaggct tctgtaatat aattactcta aatctttcag attgccagag 300  
aatcaacagt tccaccctct ggcctatcac aggattaaca agtttgacag agttggacct 360  
ttcaagatgt ttcaaggtta cggatgctgg tatgaagcan ctccaatctg ttgtaaatct 420  
gaaaaaagtt gtggatttta cagacaaggt gtcactgaaa gttgggaatt tcccttcct 479

<210> 6111  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-D11

<400> 6111

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ggaggctgct tgacatcgac caccctgaaa gtccttttgg taaaaaggaa tctcctgctg 120  
tcgtacagtc ctactttgac aagagaaata tcggatgccg tgggtggtgaa ggcgaggatg 180  
gacacgacgt cgtttggttc tggctagata aaggaaagtc atttgaatgt ccagtgtgct 240  
cccaatactt tgagcacgga ccaccagacg gtcattggtga cgatgaagac caccaccatt 300  
gattccggtc ttttcttaac ggcgaaatgt tttcctctat tgtagtgagt tggaataaat 360  
aattccccgt tgggtggaaa acactttaaa taatgttttt tttgatcctc caagaaagac 420  
accaacaact ttaattggcc tcaagggtc cnaaccctt tttgccttct cttgagaa 478

<210> 6112  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-D12

<400> 6112

acgcgtccnc ttctttctct cttctattct atctcttaaa ccttagattt gatctgggtn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nntgggtcgca tcccccttta tccgagaagg atctatccaa atctttgttt gtcgaatctc 180  
ctctcatggc taccgttgct cctcctgctg atcaagctac agatctgttg cagaaactat 240  
ccttggaactc gccagcaaaa gcttcagaga ttcctgagcc taacaaagaa gactgccgtc 300  
taacaagtat ggaggcggtg atgttcatgg gcaaagttcc ttcctaagat tgatcttgac 360  
aacaaatgcc ttcccaagtg aatgctgctg aaccttcaag tttgctaagg ttcccaatcc 420  
ttaacaatcc ctaancagta atacaatggt anaatgggga atg 463

<210> 6113  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-D7

<400> 6113

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nnnnnnnnnn nnnnnnnnnn nnnnnnnntt cttggaaaac gacgccgagg ctgcctctgc 120  
cgccaccgcc gccggaaaat ctacggatgg tgtttctgag tcaacttaaca tccaaggaga 180  
aatcttatgt ggtggagctg cggcggatat cgccgggaga gattttggcg gcatgaactg 240  
tgtgaagcct cttgctgtgg tgagaccagt gggaccggaa gatatcgccg gagcggtgaa 300  
agcggctctg aggtcagata aactaacggt ggcggcgcgt ggaaacggcc attctatcaa 360  
cggtaagcc atggcggaag gaggactcgt tgtcgatatg antaccacgg cggagaatca 420  
tttcnagttg gttatttatc cggcggatgat gccacngcgt ttggt 465

<210> 6114  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-D9

<400> 6114

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnccgctg 120  
gacgtcgaaa caacctgcct cgtccaaacc tcagaagacg atgtaaggtc accgcttcac 180  
gggctaatat tgaacaagaa ggtaacacag tgaaagaacc cattcagaat attaaagtaa 240  
agggatacat aacggcccaa gaagagtttc tggagggcat aacttggctg agaagtctcg 300  
atgacattgc tgatatcccg cggcagatta attgctcgtc gaaccttant aaccgccaaa 360  
gactgaacaa ccggaattac ggtngaaag actacgccac aaacgtngta atggggccga 420  
aagccccttg attaagaaag tncgaattgc gaattttgaa gatgcctgaa agaactttgg 480  
gaccaagtgg 490

<210> 6115  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-E1

<400> 6115

cacttgnccg ggcccgtca aaaataaacg ggtcgancca cgcgtccgcc cacncgtccg 60  
cagaatccat ggatcgtgct ttaactccgc gttttgatac tccagctact ctctcccctt 120  
tccgataccg atatgggagc tctctggcca tcaactcgacg attcgcgccg gcgattgttt 180  
gcgcgaaacg atctccgatc gatggagtga gcgacgagct gaatctgatt gcttcacaga 240  
acttagatca agtccccga cgaagactag cccgttccgc ttttgttgac ttgcagcttc 300  
agctggatca ctgcttgctc aagaaagctc cgagtgggat cagaacagag gagtggatatg 360  
agagaaattc gaaaggggaa gatattttct gcaagagttg gttgccgaaa tccggcgacg 420  
aatcaaagc tgctgtatgt ttctgtcatg gctatggaag cacttgcact ttctctct 478

<210> 6116  
<211> 422

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-E10  
 <400> 6116

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag ccaccaccaa aatccttaan 120  
 acctagactt ttctcttcca tcgatggcgg ctaataacag atccgatcat gggtcagacg 180  
 aaaacacaag actttacaat ccttaccaaa actacgaagt cccaatcaac aaatctcagt 240  
 acctttacaa gcttcttacc tcncttgagt ttctcttcac ggaggaggct ttaaggcanc 300  
 gtagatcttg gggtgagaat ctcactttct anagngganc aagcttacct cgggtggctcc 360  
 gttgccggga gcttctgttg gagtcacenc tggagtcaaa aacttcgaat ctggcgacan 420  
 ta 422

<210> 6117  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-E11  
 <400> 6117

acgcgtccgc ggacgcgtgg gcggacgcgt gggcggacgc gtgggggtga ggattattgg 60  
 cctgaaggaa cttcgagccg ggtagagct gctagagctc ctcaaccagc tggtagtct 120  
 tcgagttttc cttcctatgg aaagaatcct ggaagtagga gaaagaagaa taggaaagct 180  
 actgaggaga atgtgactgt tgaaacgaat gacgaagtat ccgattctga ggatagctct 240  
 gaagaagagg aaaatgattc ctcgatggg tttgttacct ataagaatga atttgagaga 300  
 gaagaagagg agactggttt tgaattagac aaaaagcttt ggaaggccac atcctttcat 360  
 tgattctacg aaaaaagaaa caaattgaaa agacactcac ganccgatga atcnttggtg 420  
 gaactggaag aaaccggaga aagaacaatg ggtcaaagat ggcaaaag 468

<210> 6118  
 <211> 448

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-E12

<400> 6118

acgcgctcnc tctaattctct ttgccatgga ggtagatcct accgttgaaa ctgatgacat 60  
ggctggtaca gacgggatgg atgggtttatt ctctgatttg gcaaatgcga ttcctggaat 120  
cgatgaggct atgagttttg ctgagatggt gaagttggtg caaacaatgg attatgctac 180  
tattgtgttt gacactgctc ctactggaca tactctccgc ctgttacagt ttccggccac 240  
actagaaaag ggactttcga agttgatgctc attgaagagt agatttggtg gcttgatgac 300  
tcagatgagc cgtatgtttg gcatgganga tgagttcgga gaagatgctt tgctgggaag 360  
acttganggc ttgaaaagat gtgattgaac aagttaatcc gcaattcaaa gaccggatat 420  
gactacgttc gtttgtgtcc ncatcccc 448

<210> 6119  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-016-Q1-E1-E4

<400> 6119

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caccatcaca ccaatccaac tccatttaaa ttcacagctc tataagagtc acctagacaa 120  
gtcaagagag agagatagtt ctgacttctg acagagactc atggcggaag cttgcggagt 180  
gagaaggatt aagctaggaa gccaaggcct tgaggtatcg gcgcaaggtc ttggttgcatt 240  
gggtctctct gctttctacg gtactcccaa gccggaaacc gaagctatcg ctctcatcca 300  
ccacgccatt cactccggcg tcactttcct tgacacctcc gatattctacg gtcttgagac 360  
caacgagctt ctctcagca aggctctcaa ggatgggggtg agagaaaaag tggaaacttgc 420  
gaccaaatat ggaatcaggt atgcagaagg ggaaagt 457

<210> 6120  
<211> 472

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-E6  
  
 <400> 6120  
  
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 atttttttca acaatcgctt ttttttttct cgatctccgt gaagctctcg aatctctggt 120  
 tttgagtttt ggagaatggt gtttttccgc agcgtatcgg cttttactag gctgaggtct 180  
 cgcgtcggcc aacaatcttc actcagcaat tctgtcagat ggattcagat gcagagctct 240  
 accgacctgg acctgaagtc gcagctgcaa gagttaattc cggaacagca ggaccgtctg 300  
 aagaaactga agtcagaaca tgggaagggt ccaactgggaa acatcactgt tgatatgggt 360  
 attggtggaa tgagagggat gactggattg ctttgggaaa cctcattgct tgacccggaa 420  
 gaggggtantc gctttanggg attgtcgaat cctgagtgcg gaaaagtata cc 472

<210> 6121  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-F10  
  
 <400> 6121  
  
 gtacaagtct caaattcccc gggccgaccca cgcgtccagc cgagcaactg aagcatgctg 60  
 aagagcaggt tgatcagaaa acacaaaatc gggatgctct tagagcggat atccagaaga 120  
 tacgcgcaat atgtaaggac tatgatata gttacaaggc ggtcatggca gaagagagat 180  
 ctgcaagaaa agcaatgcat tcaaacggc aggaattga ggcccttcag tctatgatta 240  
 gccgggttaa aagtgtgctg tctgttgatg atattgattc aagggtgcgt aatatggaac 300  
 atacgatgca gcacacaact ttatctctga atgaagaaaa agtttcatgc gtgaaataaa 360  
 gcagttgaag caacttcgct agcagatatt ttcgagtatg ggtaccaaag gatgaantta 420  
 agcaagcatt ggattgagaa agagnaaaca gaanaacgtt tgaagggtgt gaggaangga 480  
 a 481



<210> 6122  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-F11

<400> 6122

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acgcgtccga tcgagaaaga cgaaacatgg cttcttcttc tacttctctg aaaagaagag 60
agcaaccaat ttcgcgagat ggagatcaac ttatcgttac tccgtagga gccggaagtg 120
aagtgggtcg ttcctgtgtt tacatgtcct tccgaggcaa aaatattctg tttgattgtg 180
ggattcatcc tgcgtactcg ggcattggctg cgttgcctta cttcgatgag attgatcctt 240
cttcattga tgtcctcttg attactcact ttcatataga tcatgcanca tctctacctt 300
aatttctgga gaagacgaca ttcaatgggc ggggtttcaa tgacacatgc aacaanaggc 360
catctacaaa ntgttgctta cagattaagt gannngntga gcanagtgtc tgttggaag 420
atatgttggtt cnaatgaaca ngacatcaac aagtctatgg gacna 465
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<210> 6123  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-F6

<400> 6123

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tctcnaattc ccgggccgac ccacgcgtcc angcgagacg ggaaantcca tttgttggt 60
tagaagcaag cagcagcttc ggaagcagtg gccgtataat gttcccaaca aaatatgaan 120
gtgttaatna taacnggaag cancgaaggc aatcaangcg catacgggta ccatgcanaa 180
ctacctctag aaccgctgat gaatgttcag acaaaagcag caatggagac atcaactagt 240
tcagggttag ctccanttca gctagaagca ngaagcgcgt ttcagacaag ccgggcaatg 300
tcagggtctg gtaatgttat ggngacatct tcaccanaga gcancttana ctgcgatgac 360
attcaccggt ttaaagtttc gtctgaagca gaggatgcan cgcantttta atgggttctc 420
ttctgctggt gggcctgatg ggtcaacanc gaggacaaca 460
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<210> 6124  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-016-Q1-E1-D1  
  
 <400> 6124  
  
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 cgaaagttct catggcgctc aagcaaaaat tctgactcgt tgatccataa agcgaaactct 120  
 ttctcgctct tagtttctgc atttcgtcta tcaaaagtag gattatacac tttttgtttt 180  
 tgtttttgtg aaacctata cagttcgatc taaaacccta aaaagatggg gaaaccttcc 240  
 gatttcaaag cagttcaca acttattcaa ttgcattaca gtcgagtcaa cctgttcaca 300  
 acgacgggat ggtcaaaact ctcagctttg tcttctccgg ctcttccttc aaatgggggt 360  
 tctcagcttc agcctaagtc tggtttccac accttctcgt cgagaccac ttcgaaaaac 420  
 tttggcttat cccagattct tcttctaag gggtttctca gcttcaacct aagacaattt 480  
 c 481

<210> 6125  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-H1  
  
 <400> 6125  
  
 acgcgtccgg tgccattttc aagcctttcg accggtcaac ccagaagatc caccgctaga 60  
 tccatttctt gttcacacat tgacaatacg ctttgagcct aaaagacaga ggctgttga 120  
 tggacttgct ggtgcgcaac aagatttgag aagttttagc cttgtatttg agtacataaa 180  
 agctttgcct gcgggtcaag aaacagactt tattctggta tcgtgtactg gttcgggagt 240  
 agaagccaac agaagggagc aagtgttgaa agctaanagg gctgggtgaag attctttaag 300  
 gagatcaggc cttggatata caatcattcc gtcctgggtc ctttgaanga ggaaccangg 360  
 cgggcaacga gctctgatat ttgatcaang aaacaagaat ttctcagggc attantttgc 420  
 g 421

<210> 6126  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-H11

<400> 6126

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acgcgtccga aaagcttgaa cactccattg ttctctactc taccactatc tcacagagat 60
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attccttata aagcctcggt tctcgtcgtt gcgacgacgg aaaatggcga acgagaatgt 180
ttccggcgag aaacagagac ttgcgtccat cgccgacgag aagatccttt ttgtcgggtga 240
aatctatctc tagcgaaccg aaagccaaaag taaccgacgc agttctcgat tccgaacaag 300
aagtgtttat tagctcgatg aatccgtttg cgccagatgc tgcttcggta gcttcgagta 360
tcaagtacca cgcgaggttt acgccattgt tttcaccgga gaagtttgag ttgcaaaggc 420
gttcctttgc gactgcgcaa agtgtttagag atgcttggtc atgnaattgg 470
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<210> 6127  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-H2

<400> 6127

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ccttccatct cctctaccat ctcttctctc agaattcgca gctccagtgt ttccctcctt 180
accggacgca ttaacctgcc cctctctttc tctcgcgtct ctctatctct taaaacaaaa 240
accacctta aaaaatcccc ctttgtctcc ttcgttgccc agacttcgga ttgggctgaa 300
gaagggtggag aaggaagcgt cgctgttgag gagaccgaga acagttttaga gtcacaagat 360
gtgagcgaag gagatgagaa gcgaangana tgcgagcgaa atgagatgtg agcgaangga 420
gattgagann cganngagat gtgagcgaag ggagctgtga gcgaaagaag ctgaattcnc 480
```

gggagcaacc gggaagaan

499

<210> 6128  
<211> 479  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-H3  
  
<400> 6128

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tgagttaagc agaagtattc tggtagaggt tctactggga gaggggatta tcttggtagt 120  
tctgacgaca aggttagtga tagtatgtgg acttcagcta gagaaagaga agtgcaacca 180  
tctttaggct ctgagaagcc aagatctgtt tcaattcctg aaactcctgc cagaagttct 240  
cgtgctattg caccaccagn nttatctcct aggattgcct ctgaaatttc aatggcacct 300  
cctgctgttg tttegcagcc tgttcccaag tcaaattgatt cagagaaaat atggcattac 360  
aacgacccat ctggtaaagt tcaangacct ttttcgatgg cgcanctccn taaatgggaa 420  
caacactggg tacttcnctg ctaagttggn aancnggga aagcaatgac ccaccgttg 479

<210> 6129  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-H5  
  
<400> 6129

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ctacaatgcg ctcttgtcg gagatgctac tctcaatccg acccgatatt cgacccgaga 120  
aaatccaaga cctatgccac aatccccctgt tcttcacctc actgccgccg attagactcc 180  
gccggatgca acaccgcgc taagacttgt ctctaccaag tctcttacgg agatggttct 240  
ttcaccgtcg gcgatttctc caccgaaacg ctaactttcc ggcgaaatcg cggttaaaggc 300  
gttgctctcg gatgtggcca cgacaacgaa ggtctcttcg tcggagccgc cggtttatta 360  
ngactcggta aaggtaaatt atcgttcncc ggtcaaaanc ggtcaacggn ttaatcagaa 420

attctcttan tgtttaatc

439

<210> 6130  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-H8  
  
<400> 6130

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aatgtgatc ctacaaaacc tagttctgct tggaactggg tggagagggt gatgtctgtt 120  
ccaaaacctg agaagacttc taaagcaaatt ttgacaacgg aagagcaaaa tttggaagaa 180  
acacagaatg ttaaaatatt acctcaagct gactttgtga attctgactc aacggtagag 240  
aacaaaactg aaactgatatt gccaaagctat gaagcaagta aggtagaagg tcagaatgtg 300  
gagctattctg agacagagaa aatgagccaa tatgattcac cagaagcatt agcggagggt 360  
tattatgact caatccagtc tcagccactt gctgctaaac caagattcct tgctcgaaga 420  
gcctgaatat gtggatggac anattaaaca ttct 454

<210> 6131  
<211> 488  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-H9  
  
<400> 6131

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tctctaccat ttcaatgttc tctctctttt ttctctattc cttcttcaat cgtttgnntc 120  
tccactcaaa ntcccagacc cgaagagggtc cgggtggctcc gggaagagca gagatggatt 180  
cgcgaggagc aacgatggat tcgtgaagaa cagagatgga tacgcgaacg tgaatcgctt 240  
ctacaagaga tttcggatct acagctcaga attcaatccc tagagtcacg aaattcgcaa 300  
ttggggaatt ctattccga tacgatttcg aatattcgctg ctttgcttca ngttttgnag 360  
ggagaagaat cggntttctg ganagtggat ttgagcgcaa cggcgatggg anttgngaa 420

gtncgagagg aacaanttgt tgacggangt ggggaggaag aggaagaagg cngagtggat 480  
tattgctg 488

<210> 6132  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-A1

<400> 6132

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aacaagctta cctcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnngt ctgcaccgtc ttctgggtcaa ccacagcagc 240  
agcagtatgg tgggtggtgga tctcagaatc caggatcagc tgggtgagatc cggtcctgt 300  
ggatcggtga cttgcagcca tggatggatg agaactatct catgaacgtc tttggtctta 360  
ctggcgaggc tacagcagct aaagttattc gcaataaaca gaacggatat tcagaangtt 420  
atgggcttta ttgangtttg tgaaccaatg ctaca 455

<210> 6133  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-015-Q1-E1-A10

<400> 6133

acgcgtccgg gaagttgtcc atgaagaacc tgggtcatgt tcttaaagtt ccctttcgtc 60  
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atgttaatgc acacattggg cttgctaagc taaggaagga gtggattgat cgtcgggaga 180  
agctaggaac accaagatac actcaaatgt actacgctaa gcaagggatc ataactgagg 240  
aaatgctcta ctgtgctact agggagaagc tagaccctga gtttgtaaga tcagaagttg 300  
cacgaaggac gggcgattat cccttccaac aaagaagcat ttggagctgg aaaccgatga 360

ttgttgggta aaaagttcct ggtcaaggte aatgcgaata tccggaaact ccgctgttgc 420  
 caactccaat tgaagaagaa atctacaang gtcaatgggc aaccat 466

<210> 6134  
 <211> 530  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-A11

<400> 6134

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 aatggtgtct tcttggtca attgtcgtca cagccacaaa cttttgcct cctaacaacg 120  
 ccttaccgaa caacgcagga ggttggtgta accctectca gcagcatttt gatctctctc 180  
 agcccgattt tcaacgcctc gctcaatata gagccggcat tgtccccgtc gcttaccgaa 240  
 gagtgccgtg cgtgagaaga ggaggaataa ggtttacgat aaacggacac tcttacttca 300  
 acctagttct gatcactaac gtcggaggag ccggagatgt tcaactcagcg atggttaaag 360  
 ggtcaagaac tgggatggca ancgatgttc aagaaactgg gggaacagaa ctgggaanag 420  
 taactcctaa ccttaanggg naaacnctc ctcaattcaa aagttttcaa caaagcgatg 480  
 gncaaaaacca antgtctcct aacaacgttg ctaacgcaag gctgggtcct 530

<210> 6135  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-A2

<400> 6135

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 gagcttttga atctcttgag atggttgctt ggttacnaag nttcncaagt gaacttcaag 120  
 gganaaaagc ccanggggnt tgctcctttc tccaaanctc aatttgcaat ggnanccaaa 180  
 gatacccttc aacananggt gtttgatgct gagtcaaagt ctgtgatata tacagagatg 240  
 gccaaagaaga atctttttgt taaaagaggt attggtgggg attcaaagtc ttatgatcaa 300

agtaagcgcc tacgaactgg tggtgactgc acacactctg tgtatagtcc atctcctttc 360  
 catcctccac ctctcctgt gtggggacct cctcatggat atatggcacc tgcantcca 420  
 ccatatgatc 430

<210> 6136  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-A9  
 <400> 6136

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 accaactagg gtttggcaac caggtgttga tacccttgaa gatggagaag aacttcagtg 180  
 tgacccttct gcttataatt ctctccatgg cttccatggt ggttggccct gtctgagctt 240  
 tgacatttta ggtgataagt tgggtttgaa ccgaactgag tttcctcaca cactttatat 300  
 ggtggctggg actcaagctg agaaagcagc tcataactcc atagggttat ttaaaatcac 360  
 caacgttatc tggtaaagan acttnatggt tgtgcctaaa gacanttggc aatgggtgan 420  
 gatgaaggat gaaggatgac gaaagatgac ngttgacagc gaatgatnaa tg 472

<210> 6137  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-015-Q1-E1-B11  
 <400> 6137

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 cgaaacagcc ttggcttaac ctttacaatt actaccacc aaaatacgca aactccaagc 120  
 tcaaatacac agaccaattc agatttcttg ataaagccgc tatcttgact cctgaagaca 180  
 agttgcagcc agatggtaag cctgctgatc cttggaagct ctgtacaatg caacaagttg 240  
 aagaagtga gtcgatcgtg agagtgttc ctatatggtt tgcacatca atttactact 300



taaccataac tcaacaaatg acttatcccg tcttccaagc cttcagaagc gacgtcgcta 360  
aggccaagag gtttgtgatc ccgcagcact agtggtttct gatacggatg aagtttcacg 420  
atcacacgtg actgtgcaca tgaaaaatac tggctaacac gg 462

<210> 6138  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-G8  
  
<400> 6138

acgcgtccgg tgggtttcga tggggtcagg tgcacgaag aatactgagg aagatgacga 60  
tggttccaat ggcgagggtg gtcagctcta cgtttcactc aaaatggaaa actctaaggt 120  
tgaaggagag ctcactcctc atgtctatgg ctctcttctc ctcacggtt cctgggatcc 180  
ttccaaagct cttccgatgc aacgtgaatc tgcgttaatg tcggagctaa gcttcgttgt 240  
tctctctgat cagcagactt tggacttcaa gtttttgttg aagccaaaga acagaaatac 300  
gccctgcata gtggaggagg gtgaaaatag gcttcttact ggtggttcgt tgcaaggaga 360  
tgctagatta gctctgttta ngctggaang tgatgtgatt gttgaattcc gagtcctcat 420  
caacgctgac agagtt 436

<210> 6139  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-B8  
  
<400> 6139

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aatttaggga agagactttc gcaagcaatc tagaagcaaa tcgatcgcca aatctccgga 120  
ttatttgcaa gaatcgttcc cagataatct tccccagatt ctccacttct ccagcttgaa 180  
gaagacgacg aagatatggc tacttcgaag aaaatgatca cacgtgaaga atgggagaag 240  
aaactaaatg ctgtgaagct taggaaagaa gatatgaata ctttgggtgat gaattttctt 300

gtgactgaag gatatgttga agctgctgag aaattccaaa gggagtctgg aaccanacca 360  
 gngatagatc ttgcgaccan tactgatcga atggctgttn gnnaggctgt tcaagaacgc 420  
 gcnnatgncga ngatgctgatt gnaaaagagtt taatggattt tgaancctgg 470

<210> 6140  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-C10  
 <400> 6140

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 gccactagag gagctcctcg tgacaatgag accagactgt cttgtcggta acatgttctt 120  
 cccttggncc actaaagttg ctgagaagtt cggagtaccg agacttgtgt tccacggcac 180  
 aggctacttc tctttatgtg cttctcattg cataaggctc cctaagaatg tggcaacaag 240  
 ttctgagccc tttgtgattc ctgatctccc gggagacatt ttgattacag aggaacaggt 300  
 catgnggaca gaagaagagt ctgtantggg gaggtttatg aaggcaatng agactcagag 360  
 agagatatct ttggcgtgtt ggtganacaa cttctacgag cttgnacaag gcttactcag 420  
 gantattttc nngagctttg tggggaagaa gngcgtnggc atatcgggcc gcct 474

<210> 6141  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-C12  
 <400> 6141

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 cgagcagttg aaattgaatc cttcgattct ccacgaccc agtctgggtt tcntcaaaga 120  
 atatctccga agtttaggag ctcaagttcc gaagattgag aaaactgaaa gagattatga 180  
 agataaggct gagacaaaac ccagtttctc tcctaaacnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngcctcc 300

tcagccgatg ggagacccta ctgctgaagt gaccgatgan natanggatg atgctcagtc 360  
agaganagaa gcaacctatg gaaggcanc ctcctgatggg aagtttggcg anagctatag 420  
cagcatctac caaaagnt 438

<210> 6142  
<211> 486  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-C2  
<400> 6142

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atcaatcatt tggacaaact gtttgcaca aatgacgctg ctactatagt gaatgagctc 120  
gagattcagc acccggtgc taaacttctg gtttttagctg ctaaggctca gcaagaagaa 180  
atcggagatg gagctaattc gacaatctcc tttgctggtg aacttcttca aaacgctgag 240  
gagcttatca ggatgggact tcatccgagt gagatcatta ctggatatac taaagctgtc 300  
agcaaggctg ttaaatactg gaacaactgg gttgagactg ggttctgaga ccatggatgt 360  
acntaacaag gatgaagtta tttctcgat gagagcanct gttgcaagca aacagtttgg 420  
gcaangagga aataatttgc cccttagtta ctgacgcatg tattcaaagt ctgcccaacg 480  
aatccn 486

<210> 6143  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-C6  
<400> 6143

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gaattcgttt tgtcgccgtc ggtaatggcg aaaaattaca cagtcgccga tgtcgtaaatt 120  
atcgacagtg acagtgcagc tgacgacgac aacggaggag taataggaat ggttccgagc 180  
ttggcatctc taatagagaa tcagaaagtt tcgatcgctg atgctgcgac ggtggctcct 240

cgagaaaccc tagagtgccg aagtttctgg aaagccggcg aaaactttgt gatcccttca 300  
 agtgttactc taactgccat aggtatgggt gagcatgctc gtgttcatcc aanagtttct 360  
 tcaactcgaat gctacttcac ataaatgggc tttggagcaa tcgccgagct acttgacaat 420  
 gccggttgat gagatac 437

<210> 6144  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-C7  
 <400> 6144

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 gatattgtcc tcaccgagcc aggtctcagt gtgatcatca gcgcggttct aaccagtaga 120  
 gccatcttcc agagaatgaa- gaactacaca atatatgcag tctcaattac cattcgtata 180  
 gtgtttgggt ttatgctcat tgctctaata tggaagtctg acttttcacc attcatgggt 240  
 ttgatcattg ctatattaaa cgatggaacc atcatgacta tctcaaagga cagagtcaag 300  
 cttctccaa caccagatan ctggnaactc aaagaaatct tcgcaaccgg cgttgttctt 360  
 ggaggetaca tggctataat gactgttggt ttcttcnggg ccgcatacag aaaccgantt 420  
 cttcc 425

<210> 6145  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-C8  
 <400> 6145

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 tgaaggagca acaagaaaag aacttaacct ctgtttcgag aatatgaaga tggaaggagt 120  
 tttgatctct gagtggaaag atatccctgt ggagcttctc atgaagattt taaaccttgt 180  
 tgatgatcgg actgtgatca ttgcttcttg tatttgtagt ggctggagag atgctgtttc 240

ccttggcctc actcgctct cctctctttg gtgcaagaag aatatgaaca gtttggttct 300  
atctcttgct cccaaattcg taaancttca gactttanta ctgcgacagg acaaaccgca 360  
cgcttgagga caacgcggtg gaagccatag caaatcantg tcattgagct acacnatttg 420  
g 421

<210> 6146  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-D2  
<400> 6146

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tctctcatct ctctttgttt cgaccctttt ttagtatatt tccaggaaat atcttcttcc 120  
tcctttcggt ttctctatct cagttttctc tcntctcagc attaagtagt caacggtcag 180  
cgatctcggc gttccttcta atcggaaaag tctagcttca gtttcttttt tttttgcttt 240  
tttggtttcc gcgattaatc gatttgggta ttttgatttt ctcttcaaata taagtcaacg 300  
ggtggatacg cgttganagg gcttttctcg tattctgcnt ctaatttcat catcttggga 360  
ntaccttggt tgggtggtan cttaatcgan ggattcgang atccnnttta acaggggggtt 420  
taacaatgat ggantttctc tgantaaggg ataagttcga 460

<210> 6147  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-E11  
<400> 6147

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caaaaccgnt ctcgcagagt ttctttccgt ctctctgcta agcccaagct tcgctttctc 180  
tccaagccta gtcgcagtag ctaccctgtg gtgaaagcac aatctaacaa ggtagtagt 240

gggtgcatcat caaatgctgc caaagttgat gggccatcat cagctgaagg aaaggagaaa 300  
aactcattga aggagtcgtc tgctttcttct cctgaattaa ctacagaana gtctatttct 360  
gagttccctt acccaagttt ncanntcttg tcnnngcttgt ggggttcaag gangacattg 420  
tttgggt 426

<210> 6148  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-E4  
<400> 6148

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tgtagaatcc gtcgacaaaa caactagctc caatggcata atgagcattg tagtttgcaa 120  
ttttcttctc cgtgaagaag aagaagatgg ctttggagaa agaggaagaa gcgtcacaaa 180  
acggtgcgtt ttgtgtcctt gatgggctct attgagagga agaaaccggg tttgtggagg 240  
acgatcttga tgacgatgga gatttagatt ttctcgagaa atctgatgag agtggtgtaa 300  
agtttcagtt ttacctctt ttggatatgt tcttatggga tgacgatgag attctgagtt 360  
tgatttcaaa ggaaaacgaa acgaatccnt gttttggggg aacanatcct agatggcttt 420  
ttgggtttct tgtaggaaag aagctttagg attggggctt tagggttaaa tcnca 475

<210> 6149  
<211> 492  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-E6  
<400> 6149

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accaataaca ataagaagac gaatggcgctc ttcgtcgctc tcagtcacat ctccagctgc 120  
tgctgcttcc gtctatgcag tcaactcaaac ctctcgcac ttccaatcc aaaaccgctc 180  
tcgcagagtt tctttccgtc tctctgctaa gcccaagctt cgctttctct ccaagcctag 240

tcgcagtagc taccctgtgg tgaaagcaca atctaacaag gttagtactg gtgcatcatc 300  
 aaatgctgcc aaagttgatg ggccatcatc agctgaagga aaggagaaaa actcattgaa 360  
 ggagtcgtct gcttcttctc ctgaattagc tacaagaaga gtctatttct gagttcctta 420  
 accaagtaac anctcttgct aaagcttggg ggantcaaag agacattggg gaggttgcaa 480  
 tttggaaana ac 492

<210> 6150  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-E7

<400> 6150

agcagcntta ccgggccaat accggtcana aattcccggg ccgaccacg cgtccnnttc 60  
 ttctctgcag tctctcttct ctctgttttg ccttgetctg ttctctcttc ctctcatcgt 120  
 ctctccatc ggcatcaact atggncaggt cgctaacaac cttctcccc ctaaaaacgt 180  
 catccctctc ctcaagtctg tgggagctac aaaagtcaag ctctatgacg ccgatccaca 240  
 agccctacgt gccttcgccg gctccggctt cgagctcacn gtggccctcg gtaacgagta 300  
 cctggctcag atgagcgacc ctattaaagc ncaaggctgg gtgaaggaga acgtccaagc 360  
 ttacctcca aacaccagga tcgtggccat cgtantggga aacgaagtcn tcanctcang 420  
 tnanntcaan cntcangaa tcccnnttc ccggctaggc aagagcantc a 471

<210> 6151  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-F1

<400> 6151

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 aaagattaaa gtagcggaaa agaaagttcc taaacatgtt cgagagaagc aagagactct 180

tgcgcggtgg annnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngattaggca 300  
 gaagagaaag atcaggaaaa tggagaagaa gcaagaaggc ctgattctaa cagcaaagca 360  
 aaagcgtgat gctgctaaga atgaggcttt cagaaaaagg gtgttgactg atgctggaag 420  
 tcttcttggt gcagataaaa acggtgattc ctcaaaaacg tcccatatat nggaattaaa 480  
 a 481

<210> 6152  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-F6  
 <400> 6152

acgcgtccgt ctctctctct atttccgcag acatcaattc ccctttttga ctaaaattcc 60  
 gcgacttggg ctttgatcca ttcccagtga atctcaactgc ttttctcaca gaaaaaaatc 120  
 actccttttt cctggatttt gttttctcga ctgatttggg gaaaagctat ggtggtctga 180  
 ttaatctctg tctgtctttg gtgagatggg tttggatgct gttaaagcta aaggggaattg 240  
 gaaatcnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngtggttgct ggggtcaaatt 360  
 taggtttatg attggttgca tacctcaaaa tcagaccttg atgcgtcttc ttccttctaa 420  
 ccatgggctc 430

<210> 6153  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-B4  
 <400> 6153

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tgttttctgg gattatccaa agagaagaaa cagaggaaat caatctcttt tttagtttca 180  
 gaccctaaat cctagggtttt gaagttttgt ttcttttagta attttgtcag gttttgtgtc 240  
 tgggtgttggg atttttcgga gcttgggtttc ttgaaccagc tccattttct aaaaattcct 300  
 tctttanac cccattgttg tnantcttaa agaaaaanga agnatgactt gttgtttctc 360  
 ttgtttgaat cctcgaacca agcgacataa ggagtccgac attgataacg nccngangca 420  
 acctcgttan caaaacnctn taatcaatnc aatggaagtt 460

<210> 6154  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-F5  
 <400> 6154

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 ctaagagctt tactacagtc ctactctcta cacatcttct ctctctctca agagctagtc 120  
 atggccaaac tcataacttc ttttctctta ctcacaattt tattcncttt cgtttgtctc 180  
 actatgtcaa aagaagctga gtaccatcca gaaagttatg gaccaggang tctganatca 240  
 taccaatgtg gaggacaatg cacaaggaga tgtagcaaca caaagtatca taagccatgc 300  
 atgttcttct gccaaaagtg ttgtgctaaa tgcctttgtg tccctccagg cacgtacggc 360  
 gacanacang tgtgtccttg tntacaacna ctnggaagac tcaacaaggg tggtcnaa 418

<210> 6155  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-G10  
 <400> 6155

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 gaagaggatt catcatcatc aatcaatcct tcattttatg gatctactca tatcttgatt 120  
 cttecttcta tctctccctt ttcttccatc tctttttctc tgggtttccc cggattgagt 180

tttttaatct ctgattgaca gatttgaaga gcgtgacaaa ggaagaatct tttattaaaa 240  
 caaattcttc tgttttaatc ttgggatggc ctcggtgggc atagagccta gtgccgcggt 300  
 tagagaatct actggaaacg ttactgatgc tgatagatta cccgaggaga tgaaggacat 360  
 gaaaattcaa gatgataaag aaaatggaag ctacgattgt taatggcatg tgactgagac 420  
 tggccatata atagtaacta ctataggagg aagaaatggg caacccaaac a 471

<210> 6156  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-G8

<400> 6156

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 aacatattct ctgctgggta ttagattoga atttctcttt ttgtgatcag aaatggatcg 120  
 agctccggtg accacaggac cgttgatat gccgattatg caccagagt atcgatatga 180  
 cttcgtaag gatattggtt ctggtaatct cgggtgttgc cgtcttatga gagataaact 240  
 cactaaagag cttgttgctg tcaagtacat cgagagagga gacaagattg atgaaaatgt 300  
 tcaaagggag atcattaacc acaggctact aaggcatcct aatattgtca gatttaaaga 360  
 ggtcattttg acgccgactc atctggctat cataatggaa tatgcttctg gcggtgaact 420  
 ttacgagcgg atttgcaatg cangacg 447

<210> 6157  
 <211> 475  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-H2

<400> 6157

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 actcctcgtc ggaatcgcaa tcatcatcgg ctttgtcaag ttggagaatt ctgatccaa 180

gcttcgctct gaacttgcca atacggtggc tgcttttgcg aggatgacgg tggaggattc 240  
caggaagctt ttgcctcctg agttttatcc ttcttgggtt gtcttctccn agcgtcanaa 300  
gttgacttgg ctcaaccatc acttgacana gatctggcct tatgttgatg angcagcctc 360  
tgagcttata aaggcatccg tggagcctgt tcttgagcaa tatagacctg ccattgtggc 420  
ctccttanca ttttctaagc ttactctcng tacagtggca cctcaattta caggg 475

<210> 6158  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-H3

<400> 6158

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ctctgttgat tagtcaacac agatcagaat ctgaggcttt ggccgagacg agagaagcag 120  
aagaagaaaa tggcggagac tgtacattct ccgatcggtta cttacgcacg gatgttatcg 180  
cttctcgect tctgtccacc tttcgtcatt ctctatggg acacaatggg tcatcaggat 240  
ggttctgtta ctacagacctt tggcttcttt tgggagaatg gagttcangg acttatcaac 300  
atatggccaa gaccactttt gattgcttgg aaaattatat tttgctatgg agcatttgaa 360  
gctattcttc agctgcttct gcctgggtaa angagttgag ggtccaatat ctccagccgg 420  
aaaccgacca gtttacaagg gcaatgggtcc tggctgctta ctttgtgaca c 471

<210> 6159  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-H5

<400> 6159

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caaattgtga cctgaccaag actcaagacc aaggctctac cctaagaatc ttccacatag 180

acagcccttg ctcccccttc aaatcatcat cccactctc atgggaagcg cgtgtgctcc 240  
agacgtggc tcaagaccag gcccgctctc agtacctgag cagcctcgtc gccgggagat 300  
ctgtagtctc cattgcctca gggcgctcaa tgttgcaaag cactacatac attgtcaagg 360  
ctttgatcgg tactccggct cagccgctgc tctagccat ggacacgagc agtgacgtgg 420  
cttggattcc ttgctccggc tgcgttggtg tcttctaac acggcct 467

<210> 6160  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-H6

<400> 6160

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cgtccgaaaa aaatgagtca acacaacatc ttagaagctc taaatgtccg ggtcgtgggt 120  
acgggtgatc ggatcctgtt tttggcccat ggattcggta ctgaccaatc agcttggcac 180  
ttgatccttc cttacttcac tcaaaactac agagtcgtcc tctatgacct agtttgcgcc 240  
ggcagtgtca accccgatta cttcgatttc aatcgttaca caactctcga tccttacgtc 300  
gatgatcttc tcaacatcgt tgattcactc ggaatccaaa actgtgctta cgttggtcac 360  
tctgtttccg ctatgatcgg aatcatcgct tcgattcgtc ggccggngct tttctccaag 420  
cttatcttga tcggattttc gcctangttt ctcaacgagc angattatca tggag 475

<210> 6161  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-013-Q1-E1-H7

<400> 6161

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gaagaatcct cgtcctcttg atgaagatga tatcgctctc ctcaagactt atgggttagg 180

gccttactct gcacctatca anaangtgga naaagaaatt aaggatctcg ccaagaagat 240  
 caacgatcta tgtggtatca aggagtctga tactgggttta gctcctccca gtcaatggga 300  
 tcntgtatct gataancaaa tgatgcanna agagcancct ctgcagggtg cganatgcac 360  
 acngattata acgtccaaac actganagac gccanatacg tcataaatgt c 411

<210> 6162  
 <211> 442  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-H8  
 <400> 6162

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 aatggctcct tcaagcgtcg ttaggggttta ctctaccgct acctctcctt ctcttctga 120  
 aatttccgtc aagaaagttg gtactcataa tggaagcttt cactgcgacg aagctctcgg 180  
 ctgtttcatg attcgcctcg tcgataaatt ctccggcgct gatatcgctc gttctcgtga 240  
 ccctaagata ttggcagaac ttgatgcagt gcttgatggt ggaggtgttt atgatccgga 300  
 gcatgaccgt tatgatcatc accagaaagg ttttgaagag gtttttggac atggcttcaa 360  
 cactaagctc agtagtgctg gtcttgttta caagcatttt ggaaaggaga tnatanctaa 420  
 ggaacttaat gtccaacaag at 442

<210> 6163  
 <211> 443  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-H9  
 <400> 6163

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 catcgtaga tgtagctaga catgccacat cagtagaatc atttgggaat caccgaccgc 180  
 cgatatcgcc gtggcactca ccggtgccgt acctattcgg tggctctgcg gcgatgttag 240

gcctcatagc cttcgcttta cttatcctag cctgctctta ctggcgcttg tcaacctccg 300  
 gtgatgactc cggcgaaaga gtcgacgagg aaaaagagag tcggtctgga gtgaaggcgg 360  
 ctagecgggc gtgcgaggag aaggttcttg tcataatggc cggagatgac ttgccgaggt 420  
 ttctggccac gccggcgggc aac 443

<210> 6164  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-A11  
 <400> 6164

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 actggtcgcn tccatcagga aacgagggca agctccaagt ttgctgattc taagagggtt 180  
 acttttagact cgtctagtgc tggagtagag caggcaattg gctgctatga cacaccggtt 240  
 caggagctta tcgtcattga tgatctctta tctgcgttgg ttggaattga agggagatat 300  
 atttcaatta aaagattcca tgggaaggag gatantatag ctttccaagt tgatccatca 360  
 atggatttgg nantacagga attggcganc annatatttc ctttatgtga ataattanc 419

<210> 6165  
 <211> 407  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-A8  
 <400> 6165

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 tcctctttct cagctcaatt tccaaaagct ccgaccttta cgatcctcta gattctcggc 120  
 gccggtttct cggagtaa ataatggctcag ttcacgggtc gggtcggttg agactacttg 180  
 gtgggtcgtc aaatcgggtc gggttcgttc tctgttgttt gggaagcgag gcaccgcgtt 240  
 gacgggtactg aggttgctat caaagagatc gccatggaca ggcttaacaa gaagctgcan 300

gaaagtctca tgtctgagnt ttttatcttg angangatca atcatcctna catcatccgt 360  
ccgatnaaca tgataantct cctgggaaaa gtacattngg tggttgg 407

<210> 6166  
<211> 519  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 6166

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tgaggctctc aattacggcg gacgaggcga angaggattg attactcanc atcacagaag 180  
aaaaaaggca gtcctgcatg cgaagaagag gtgtgatcgc gattttttgt tttatcaaatt 240  
tggttataaaa ggagagaaga tgcgtcaaca gagattcggga tatcgaaaaa cagagattct 300  
atcatcagat tcgtcaatgg agatacctgt ttgtcgaggt ctggaagctg attttanagg 360  
taaggangat ggcgaatgaa acgggggttg ncntcactga gcagattant actttggagg 420  
aacnaggtat tagacanggc accggagana aatcctttac agcatctcac tccggataca 480  
cnnnttnnca ttgggncgtc catcccaacc cgacntaat 519

<210> 6167  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-B2  
  
<400> 6167

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aaacatggtg gttttgccac agccagtcac tttagataan cacatctccc taatccccac 180  
atacaaaccg gttccggttc tcaattccca ttcaatcccc gtcgtcaacc tagccgatcc 240  
ggaagcgaaa acccgaatcg taaaagcctg cgaggagttc gggttcttca aggtcgtaaa 300

ccacggagtc cgacccgaac tcatgactcg gttagagcag gaggctattg gcttcntcgg 360  
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<210> 6168  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-013-Q1-E1-F4  
 <400> 6168

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 tcttcatcta nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn ncgtcatcag ttgcggcgaa gtctcgtttc ttcccgccga gtccgtcgtc 240  
 ttacaagctg gtttacgatg aactgaccgg acttcttctg atgaaccat ttcctcacgg 300  
 tgaaaacggt gaaatcctta agcttccgac acgtagagga acagagatcg tggctatgta 360  
 cgtcagacat ccgatggcta cctctactct gctttattcc catggaaacg ccgccgatct 420  
 ggggcccaaga tgtntgagct cttcatcgg 449

<210> 6169  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-011-Q1-E1-F4  
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 tcggatgatg agattcttaa ttacggattg accattgctt cgnaaggga agagaatgta 180  
 ttacttgtgc ttgatcaggt ttacgagac tacagttggt tcacagagca gagaatgtct 240  
 gaaaaagcca aggagactgg agaanagggtg ctgggaaatt cagtgggtggc ggacacttcg 300  
 ccggaggagc ttaagggtga gagaaaggat gttgtggaag gtcaatgtgc ggcgtattgg 360



acaacacttg caccgaatgt cgaggattan actcacagta ctgctaaaat gatagcttcc 420  
gggtcangta agctgatcag aggggatact gtggtgttng gattaactg 469

<210> 6170  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-011-Q1-E1-F6  
  
<400> 6170

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aggacgttta aagtgcggc ggagaagttt ccgacgtttc tgccgaccga tgctcgagaaa 240  
attaaagaca cgtttgctct aaagctcgcc gccagaatag agaggcttcc tgtatctgtg 300  
agcttcaggg aagatagtat tatgagcagt tgcgtgacac cgctgatgcy gaacgagaca 360  
actcctgttg tgcttcttca cggatttgat agttcttggt tanagtggcg atacacttat 420  
cccgttgctt gaagaanccg gtttagaaac atgggnattt 460

<210> 6171  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-011-Q1-E1-F7  
  
<400> 6171

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tgtcttctag aaatgtggac acgactaagt acaagttggt gaatccaagt gatgacagat 180  
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tcacttggtt cttctggctt ctatgcanta accaagaagc catgancaag attcgtcaag 300  
aatcancac aaatctattt ccaaganaca agaccgacga cggttctggt tcntatgant 360

ctgantcatt caatcccca gaggtanaga aattggtgta tttacacggc gcggtttgtg 420  
aangcctcan gctctagtcc agctgttccc gnta 454

<210> 6172  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tgccacttgc atgtctggga actccacttc caggaggatt tncactactg aggcagcacc 180  
tgagaagaaa aacactgttg ggtctaaagg gcatgatatg cttgcacctt ttactgctgg 240  
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tgatgatact gggaaaaaat atcttgactc tctcgtctgg ttatggtgta ctgccttagg 360  
aggaaatgag ccaaggcttg tttctgccgc tgttgaacag ttgaacacct tgccgtttta 420  
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aa 482

<210> 6173  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
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gangaacttc tacaaggaca cgtgtcctca ggccgaagac atcgtccgtg aacaagtcaa 180  
actcctctac aaacgccaca agaacaccgc tttctcttgg ctccgtaaca tcttccatga 240  
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ggagagaaaag aacacgacag gagcttcgga cttagaaact taagtacatc nagganattn 360  
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 ccccan 426

<210> 6174  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-011-Q1-E1-G3  
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 gaagacagca aaggctttgg ttaccgagct caagaaaatg tctaaggagg ttgaagacag 180  
 tgaacttgca gatgttgcac ctgttactgc gggtaacaac gacganattg gaaatatgat 240  
 tgctgaagca atganccana gtgggcagga aangtgtggt gacccttgag gaaggttaaa 300  
 antgccnaan aacnacctct acgtccctag aagggaatgc aattttgacc cgtnggttaa 360  
 taaccnctcc ctaacntttg ttgaccanac cagncganga aaaaattgtc ccgttcnaag 420  
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<210> 6175  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-011-Q1-E1-H4  
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cgagtttggn ccnactgatt cctcttggtt gaatggggat aaccaagagt gttggatggg 420  
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<210> 6176  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-A2  
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aacattgcta ttgaatcaaa cgctttgatt catgataaac acgaagcttt gcctagattt 300  
tatgagctct cttggtcttc ctctaccggg aagacgttca ctttctcgg acgctggagc 360  
taaaactaac cggagatgac gatgacctcc gaaagacaag aatgtaanct tgcaactcca 420  
gacgagaact agtagtgata agtgaagaag gtgang 456

<210> 6177  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-012-Q1-E1-A3  
<400> 6177

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ttgtaatgga agaattctcag ggcattcaatg gcgtcgatga ttcagatcgt catctcccaa 180  
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 taatcaaagc cttacagctc acactatctt tctctctttg gcattcatgt tttcaccatc 360  
 acatttgctc tctatggatg tcttttgggtg tatatgtgac tgggtgtctg tttcagacag 420  
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<210> 6178  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-012-Q1-E1-A6  
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 tactttctca tcggttcgaa gcaagcctca gttaccanct aagcctttgc agtccanaga 420  
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 cactctctcg cgaatcgaat cagcattcnt caatcttctt cttctctatt gcgatctctc 180  
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agggtttttg catcgacgcc atctatcgag ctacggagaa gcatactcat cttctatttt 300  
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 ggataattat tgcgtaccga ggtactagca cgaccggttt agtgttttcg gcgacttcga 420  
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 atgggttattg ctacttatcg tttgggtata tctactcttt tccttcttcc agtcgcttat 300  
 ttttgggaac ggnaaacang accaangcta actctaagca tctcatgtca gcttttcgctc 360  
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 tctg 424

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 <211> 487  
 <212> DNA  
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 cagctgatcg gagcttacaa aacagagaac cctgagcctt tcatcgacga gagagtagcc 240

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 gctccatttg taaccttttg gggaaacact ctctgcttct taagaaangt ctttgcataa 420  
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 caagccn 487

<210> 6182  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 ggcgatcgag tggttagtgt ttgatgatgt cagagtcgtc gttgcgggga cttcttgtgg 360  
 atatctcttg gtttactctg ttaccggtga tctgatccat aagcagattg tacatcaaag 420  
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 tgangga 487

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 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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ttcccccttta agatttttttg ctttttgaat gtagtggtgaa gaagaaaccc tagtttttttc 180  
 tcacttgaat tctctgcctt ctttagtaat gtcaagttag cagcgagaag gttcgcaaga 240  
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 ggctcccacg acattgagag ctacctctac gatgggtttct tgccaagaga ctaaggntaa 360  
 accctaacaa cgagcataga cccgatagtt atgaagatct gcaacttgat ttcccaaact 420  
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<210> 6184  
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 tttttccac ggtagaggca aagaagcggg gtagagatgc tcctatagtg aaaggctctt 180  
 catggaactt ttaccagaaa gcatgtccga aagtcgaaaa catcatcaga aaagagctca 240  
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 attgcttcgt tcagggatgt gaagcatcag tgctgctaac tggatnagcc agtggaccaa 360  
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 taancttcgt 430

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 gaagatctgt gattttggtt attccaagtc ctactgttg cactctatgc ccaaataaac 240  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 gggcttttgc catagccgcg gccggaatca ctagegggtc catcgccgag cgaacgcaat 180  
 tcgttgetta ctttatctac tctactttct tgaccgggtt tgtttaccgc acagtctcgc 240  
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 ttggctcagg tgctattgat ttcgcaggtt caggagttgt tcacatggta ngtggaattg 360  
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<210> 6187  
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 <212> DNA  
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gaaataaacc taatctcgcc ttgcgatggt cagtctcaat tgagaaagaa gttcccgaag 180  
ctgaacgacc ctttactttc cttagggatt ctgatgacgt cactccatct tcttcttctt 240  
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<210> 6188  
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<212> DNA  
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caagttactc cgtacaanaa nggtaagacg agttgctttt ataatgcaat cccaaaaaat 480  
cctgctg 487

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gatgagcttc accacactgg ttggaactct tgcagctctt gccatggtga tgcttctgct 360  
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cgancgaccc aaaaggg 437

<210> 6190  
<211> 396  
<212> DNA  
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<210> 6191  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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cgtggggaga aaacatttgg atgttctcaa gatactagtg gagattgggtg tcntcttcaa 420  
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<210> 6192  
<211> 489  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tggaagga 489

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 aggaggaaga tgatgatgct gcagagaaag aagaanatga cgactccgat aagaacaaga 360  
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 caacggcgag tttcctgggt ccaccataaa agccttcgcc ggagacacca tcgtcgtcaa 420  
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 ctcatcatta acgtacacaa cagcttagac gagcctttct taatctcatg gaacggagta 360  
 caaaacagaa gaaattctat gttgatggaa tgtacgggna ccacgtgtcc aatttcaacc 420  
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<223> Clone ID: LIB23-010-Q1-E2-F1

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<223> unsure at all n locations  
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<210> 6202  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana  
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cgaatcatgc cgacaagtga gtcggatcct aaaanaaacc ggagctctca ttgttaaaga 180  
tcctcnatgt tgcgcncaag acaacgatcg antcattgat atgatggaaa attatttcga 240  
aaaacctgat gatttcaaac gattgcaaca aagacctaat cttcactatc aggttggtgc 300  
gacgccggag ggagttgaan tgccgaggag tttggttgat naagagatgc aagatnagtt 360  
caatacaatg cctaataaat acaaaccaca tattccgaaa ggaccaagat cataagtgga 420  
gatatatgtg gaaaattngt cccaaggcca tctaacacac n 461

<210> 6203  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 6203

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ctctgtgatt tctgggtaga ttctaggatt tctatttgca tctctaacct gagagctgct 180  
aatagtccac acaacttttt agtttgtgag ttttcctaata ttaggggttag gacaaatttc 240  
tgtatttttc atccaagggg ataaagatgt atgctgataa attggaggct gagtctggaa 300  
gcaggaaggt cgtaaggtat cgtatcaatg gcggttcttg agacatctct actcgcgtgc 360  
gacaagtgac tgggaagagg caaaggcang acgacaaatg ggagcatgat ctttcagtag 420  
tgacaaacct caactttcaa atcgcaaggg ttgatcctaa gagatctccg ttgaagctcc 480  
aaaa 484

<210> 6204

<211> 528

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-G12

<400> 6204

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gattcgtgaa gccgaaaaaa aaaaaaaaaat ggtaattctc agcaacgtct cgttgttctc 120  
ctgctgcaac atctctcaga aaccatctct cttttctccg tcttctcgta gttctcattg 180  
tcccattcgt tgctcacagt cacaggaagg gaaagaagtg gttaccaagt cctttgagaa 240  
gtgtgggttg gtcattagga gaagagggtt caaagagaag tctatttgca cttgtctctg 300  
cttctctctt ctttgttgat cctgctcttg cttttaaggg tggagggtccc tatgggtcaag 360  
gagtcaccaa ggggacaagg acttatctgg gnaaagattt cagtgggncaa gactccttaa 420  
caaggcangg actttcaaaa acgttcaatc ctnaaggga aagccaaact ttnaagggt 480  
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<210> 6205

<211> 487

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-G2

<400> 6205

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acgagcttct cctcagcaag gctctcaagg atgggggtgag agaaaaagtg gaacttgcca 180

ccaaatatgg aatcaggtat gcagagggga aagtagagtt taaggagat cctgcttatg 240

taagagctgc gtgtgaggct agtttaatgc gagtagatgt tgcctgcatt gatctctatt 300

atcaagcatc gaattgatac tcgtgtccct atcgaaatca ctattggaga gctgaagaag 360

ctagttgaag aaggtaaaat aaagtatatc ggtttgtctg aagcttcagc ttcaactatc 420

anaagagcac atgctgttca acccgataac cgctctgcaa atagaatggt ccttaagggc 480

caaaaac 487

<210> 6206

<211> 497

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-010-Q1-E2-G4

<400> 6206

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gagtagaaaa aacgacaaga agaaagaaac acagttgcag gagagaaaga gatattggctg 120

tccggataaa cgcgatggcg gtgacgtttg tggcgcacgc gctggcggta atagcggcga 180

ttatggtact ggtttggagt atcagttaca gaggtggatt ggcctgggaa gctactaaca 240

agaatctcat cttcaatctg catcctgttc tgatgctcat cggatttata atcttgggag 300

gagaagccat cataagttac aaatcgcttc cgctggagaa accagtgaag aagttgatcc 360

accttatact ccatgccatt gctctggctc ttgggatatt tggcatctgt gcaaccttta 420

aagaaccaca atgaaagcca tatcccta atctacagtc tccaatcctg gattggtant 480

ggagtcattc tcttaag 497

<210> 6207  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-G7

<400> 6207

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 gatcctactg ctgttccaac aacaagaaaa tcgttgatca tggaacgaat gggagataaa 180  
 gacatcggtta gacgtgcatt taagagtttt cagaagagtt tcgaccaaata gaaatctact 240  
 gatgatgggc aagatacagc tccaaagcag gttcttgcaa aggcaactgc tgttcagagg 300  
 ttaggtacaa ctggtcagaa aaatgtcagg cttgcaaaat cagatggcac ggagagaaaa 360  
 ggtcctaact ctcaacgttc ttcatctgtt gtatcaaaaa gcaacgggac agccgagaaa 420  
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 ac 482

<210> 6208  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E2-G8

<400> 6208

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 ttggaaggac ttaagtatgc aaattcacat gagtgggtga aacatgaagg ctcatgtgct 180  
 acaattggta tcaactgacca tgcgcaggac catttaggag aagttgtgtt tgtggagctg 240  
 cctgaagcaa acagttcagt gagcaaagaa aaaagctttg gagctgttga gagggttaag 300  
 gccacaagtg agattctatc tccaatctct ggtgaagtca ttgagggtta cacaagctc 360  
 ancgagtcac ctggtttgat naaactcaag cccttatgaa gatgggttgg atgataaang 420

gtgaaaccga acagccccgc cggagttggn agctcctgat gggcccaan ggaatacacn 480  
aagttctgcg aaagaaaa 498

<210> 6209  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-H11  
  
<400> 6209

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cagggtcaa atttggttgt gagagtctcc ttgggtgcat tttccagagc tggagccctc 180  
gccgtcgaaa accctcttta ccggaaaagg atcatcgggc aaaagataac ttgtcttcca 240  
agtcatcaac aaccgttaca aaccctaaaa tcctcccaag aaaatccacc gatacttctt 300  
ctcaacaaaa gaaatctgac tcccagaaac cccaacaaaa gccaaaacca gatgagaatc 360  
acccgcgaaa atcatcgga tccgccagaa aatcatctga ttccgcaaga aaatcgattt 420  
cgtcaggctc atcaagaaca agagagcaag agantctcac t 461

<210> 6210  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB23-010-Q1-E2-E5  
  
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agtctcaact tggtccattt actgatgaat atgtggcctt aaggaaatat catgtagagg 180  
catacttagg tcaaagccct acacagggtgc caaagtattg gcttgtgttt tcagtaactg 240  
tgccctctct tggcttcact acttacacta tctccactgc taagaaaaca gatggatatt 300  
ctagcaaatc atacgtctcc aatataccta aaggcgaaca gtcaataatt aacattgggtc 360  
atgggcatct gaagcttagt ttttcccact gatcaaggga cagcaatcaa ttatgttaac 420

ggcagaacct cgatgacaga accagtcaaa caaga

455

<210> 6211  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E2-G8  
  
<400> 6211

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tgtcgacgag aagcaaagaa ttcanagagt ttgatcagga ctttgactct gttctcggtg 180  
aggattcgcc ggcgaaattt ccaggtgaat caggagttgt tttcccgggtg ggctttgggtg 240  
acgagtcagg agctgagctg gaaaaagatt ttccgacgag aagtcatgat tttgatatga 300  
cagactgaaa ctggaatgga cacgaattct ccatcaagaa gccatgaatt tgatccgaag 360  
actgaatctg gaaacgacna gaaatcccc gaatgggcct tggtanttaa atccagganc 420  
tgagctggaa aaaagaantt gattcaga 448

<210> 6212  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 6212

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ctttacnctt gcttataccta cgtgactcag ggcggaccgg tcccaaccct ctgctgcaac 180  
ggtctcacia cactcaagag tcagggtcaa acttctgtgg accgtcaggg ggtctgtcgt 240  
tgcataaat ctgctattgg aggactcact ctctctccta gaaccatcca aaatgctttg 300  
gattgccttc taaatgtggg gtcgatctcc cttacaagtt cancccttcc actgactgcg 360  
acagtatcca agttgagaca aagcaagaaa atccttaaag ggaaagctac tacaaggaac 420

tataataacc taataattaa taaatgangg caattg

456

<210> 6213  
<211> 481  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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aacaagtttc cggagaggca accgatcggn acttcggctc agagtgacaa ggactacann 180  
nagccaccac ctgcgccgtt gttcganccc ggcganctag cttcatggtc cttctggana 240  
gctgggattg ctgagtttat anctacgttt ttgttctgt acatcactgt tttgactgtt 300  
atgggtgtga agaggtcacc gaacatgtgt gttccgctcg gnatccaagg tatcgcttgg 360  
gctttcggtg gtatgatctt cgtctcgtc tactgcaacg ctggtatctc ccggtggaca 420  
catcanccca agcngtttac gttccgtttg gtccttanct anggaagcct tcgctcacia 480  
C 481

<210> 6214  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E2-H6  
  
<400> 6214

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cagagactaa aaaggctggt canacagtaa taattcntgc acatgaacac taaaccagaa 120  
cgataacagg aaacaaagat acagtcagta ctcaagtagt ttgagggcac ctacggaaag 180  
caagtaatac tacagagggt agacgttcca gtgcttaang atgaaacatc atcagtacaa 240  
gcaaacgtgt ttttcatcat acaccgttgt cacttncaca agtggctgcn gtcagtccgc 300  
agcatacggn naattgactt tcgacaagca ncatcanctt tgcgcagagg agcaaggcca 360

accaggcaga tggggacctc tcaatnccac gccnttcagg gngaaatctc cttaa 415

<210> 6215  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 6215

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caactctttc ctcaagtgtt tctccgacaa gacgaaatct ccacaatccc aaatcactga 180  
caatgtcttc tctcagacaa accctgcttt ctctctcggt cttcgtgctt acatccgcaa 240  
tgcgagggtc aacacttctt ctactcttaa acccaccatc ataatcactc ctgctccga 300  
gagccacgtc agcgccgccc tcaattgttc aaaaacccta aatttcctcc tcaaaatccg 360  
aagcgggggc catgactacg atgggtctct ttacatttcc gacaaaccat ttttcatcct 420  
cgacatgtcg aatatccgtg acgtctct 448

<210> 6216  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB23-010-Q1-E1-A6  
  
<400> 6216

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gtttctctcc accccttcca gatttggtgc gatgatgttg cgtgctgttt ttaggagagc 120  
ttccattaga ggctcttctt ctgcttcggg attgggaaaa tcattgcaat cctctcgtgt 180  
tgcagtgtct gctcaatttc attctgtttc agcaacagag acgttggtgc ctgctggaaa 240  
ccatgctcat agcttccatc accgttcttg tccagggtgt ccagactgtt caaggactat 300  
tatcaacggg taccaaggca cagccctgca aagatgggtc aggccctttt catctgatag 360  
tggggatgtc gtggaagctg ttgtgccaca catgggtgaa tcaatcactg atggcaccta 420



accgcctttc tgaagaaacc t

441

<210> 6217  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E1-A7  
  
<400> 6217

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aatgtataga gtttttgcca gccgagcact gagagctaag tctctctgtg acaaatcatc 180  
cacctcgctt gcttctttga ctctctccag attgaatcat tccatacctt ttgctaccgt 240  
agatgccgag gagctctctg gtgctcatcc tgctgaagta cagagctttg tgcagggaaa 300  
gtggatagga tcgtcaaatc ataacacgct tctagatcct ctaaattggag aaccgtttat 360  
caaagttgag gaagtggatg aatcaagaac tcaaccattt gtggacaagc ttatcccant 420  
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<210> 6218  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB23-010-Q1-E1-A8  
  
<400> 6218

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caaggctggg aacaatccgt tgattttgat tcttggtctt ctgatcaatc tttcaaagtc 180  
ggcgacaaa tcgtttttta gtattcagaa ctacacagcg ttgtggagct aggaagtga 240  
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gtcgttaagc tttctaaaac cggctactcgt tacttcgctt gtggaaccgt tgggcattgc 360  
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<210> 6219  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-010-Q1-E1-B2

<400> 6219

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gtaggctaag atggaaatca tgtcaagaga gaatgagact gctttgtcag gtcctaggcc 180
gatggaatgg tctaccgtcc cacacagtgc ttctcaagga cctgggtcca atggcaagaa 240
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taccatgaag ttcaatcctg ctggaactct gattgcatct ggatcccatg acagagaaat 360
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<210> 6220  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-010-Q1-E1-B4

<400> 6220

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cagttacgat cagaaaacag tatgcgaagc tctcacatgt tacagcaacg attggcaaaa 180
ggcgttggag tttttcaact gggtcgagag agaatccgga ttcagacata ccaccgagac 240
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ggatgatttc aatttgagag atga 444
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<210> 6221  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-010-Q1-E1-B8

<400> 6221

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gctcactcat tctatctccc aggtgttgct cctcaggatt tcgagaaggg tgatgagctg 180
aaggtgaaag tgaataaatt aacttccata aagactcagc ttccatactc gtattactcc 240
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cgggggtgacc ggattgagaa tgccccatac tcgtttaaaa tgcgggaggg acaaatgtgc 360
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gatgatgagt accgggtcaa c 441
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<210> 6222  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-010-Q1-E1-C2

<400> 6222

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aaaggggttcg ggatttcaca gtagcattca tagacagttc aggttagtta aacgtgcttc 180
acaaaaagaa aaaaaacaga agtgtagttg aggtcacacc acagggttat gctttgctct 240
taatcaaata tttatctttc tcttttttgt tatttgctct ttttaattcc atttgcttta 300
ttccttactt gtggggatta aatgtttgca gagaaagata attcgactga ataaatacac 360
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aacacagaaa ttctcccaat ggta 444
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<210> 6223

<211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB23-010-Q1-E1-C3  
  
 <400> 6223  
  
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 aaaaaaaggc ttttccagag ttttagagtt gtgttactac ttgctactca gtttatcttt 240  
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 gacttgatcc attttcttgt tttatggggt tgtggataga gtttgggctt gaaaaatatt 360  
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<210> 6224  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 gcttctcttg ggagaaactt cagtttcaaa tgggtgtcaaa actgcgcgat tagtttctca 360  
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<210> 6225  
 <211> 478

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 ccgtagcgcg tcaaagaatt nantngcngg tgcagcagct cactaatcgg cggccgcct 60  
 tttttttttt ttttggagtt agaattgctat gaattccaaa ccagagaaga ttcaaataaa 120  
 acagagacta aaaaggctgt tcaaacagta ataattcttg cacatgaaca ctaaaccaga 180  
 acgataacag gaaacaaaga tacagtcagt actcagtagt ttgagggcac ctacggaaag 240  
 caagtaatac tacagagggg agacgttcca gtgcttaatg atgaaacatc atcagtacaa 300  
 gcaaacgtgt ttttcatcat acaccgtatc actttcacia gtggctgcan tcattcccgc 360  
 agcatancga gattgacttc gagaagcagc atcaactttt gcgccagagg agcaaggcta 420  
 ccangaaaat ggggacctcc caatgccacg ccttcangga gacatctccc ttanaacg 478

<210> 6226  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-D11  
  
 <400> 6226  
  
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 ccggattcgg ataccgagct ccctggagct gancctgact atcttaatgg tgccaaaagt 120  
 gtgaganaac tcnacgagat tgctanccca aactatgaag ggaagtacac tgttcctggt 180  
 ctttgggata anaagcttaa gactgttggt aacaatgaga gttcagagat aatccggatg 240  
 ttcaacactg agttcaatgg tattgcnaaa acccgcacac ttgaccttta tccttcncat 300  
 ctcatagacg taatcancga gactaacgga tgggttttca acggactnaa caacggtggt 360  
 tatnaatntg ggtttgcaa gnntcaagaa tccctatngt gaagcacntg aaccacttac 420  
 attntgcan tanatcncat tcaangaagt tcccggaaaa c 461

<210> 6227  
 <211> 436

<212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-D8

<400> 6227

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acgcgtccga ncgtgagaaa ctttgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnattgg tttggtctcc ggaaacagca tcaaaggctt atatagacan cgtaaatacg 120
gttagttttt tttttatttt ccggtgagtt gtgaaggaat aataacacac gcttcttctc 180
tccagttctc gaaaactcag atcttaattt tgttaaagat tcatggnttg ttcttgtaac 240
gatttttttc ttttcttttt gggtcagtggt gagaatcttg aaacgccgga cncggtggag 300
ctgatanccg ngatggcagc gggatggaac gtgaagctga tcgtgganac ttggtcanaa 360
aggagacnca anaacttcaa gtantggatt aagacgtncg angcagacac gccaaacgct 420
aaacacatnt gtataa 436
  
```

<210> 6228  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-E11

<400> 6228

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acgcgtccgg aanagtcagc atcgttttgc ttgcttgtgc gtttctctcg aactctctcc 60
atggctgttg cgctccaatt cagccgatta tgcgttcgac cggatacttt cgtgcgggag 120
aatcatctct ctggatccgg atctctccgc cgccggaaag ctttatcagt ccggtgctcg 180
tctggcgatg agaacgctcc ttcgccatcg gtggtgatgg actccgattt cgacgccaag 240
gtgttccgta agaacttgac gagaagcgat aattacaatc gtaaagggtt cgtgcataag 300
gaggagacac tcaagctcat gaatcgagag tacaccagtg atatattgga agacactgaa 360
aacanatggg tatacttatt cttgggggan atgttactgt gaaactcgct aaagcatatg 420
gtttttgctg nggtgttgaa cgttgctggt caaaattgca ta 462
  
```

<210> 6229  
 <211> 498

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-E2  
  
 <400> 6229  
  
 aactgttttc ctgggncnccn acgggtccgg aaaatcccgg gtcgaccac gcgtccgaat 60  
 aatcgaaacc cagcacgaga aaaatgcatg atttttgctt cactatcccg tacgggatgc 120  
 ttctcatcgg cggaggattt atcgggtaca tgaagaaagg aagtataaca tctttcgccg 180  
 gaggtgcagg cactggatta ttactcattc tcgctgggta tatcagtctc aaagcttttg 240  
 agaagaagaa gaattccact attgctatgg ttcttcagac agtcacgcga gctgctctca 300  
 cactagtcac gggacagcgt tacttgctga ctggaaagat tatgccggct ggtttgggtg 360  
 ctgggatcag tgctctcatg acctgttttt acgtatacaa gatcgctact ggtggcaata 420  
 aatttccagc aaaagctgaa tgatggttct gctacatgca gatganacta acccgttgtt 480  
 gaatttgctc ataaaatt 498

<210> 6230  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-E6  
  
 <400> 6230  
  
 acgcgtccgn aaggtgnnat caggaantan tgtantctcg cacanaagaa ncatnganct 60  
 tggtnaaagt nagaaagaca ggggctanct gaacctgcat cttccccgac gggtcanaag 120  
 acctctgttt ccggagagga tttccagctc gcgcgcgcga aattgggcgt gattttcgtg 180  
 atctcttcgc ttctgtgttc gctttatctt taccttctct gtttcacta caatgttgac 240  
 aatgagctca agcgtccgat cctcattaac gctgggctta gcttggttgg attctttgtc 300  
 aactcaagt tgattcctgt agctgctaga tacgttctga ggcgtaatat gtttggtttt 360  
 gatatcaaca aaangacac tctcaagga naagttagag tgcctganc c attgggaatt 420  
 gttgtcgtat tgcctcctg ataatg 446

<210> 6231  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-F1

<400> 6231

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tttttttttt tttggagtta gaatgctatg aattccanac cagacaagat tcanatanaa   60
canagactaa aaaggctgtt caaacagtaa taattcttgc acatgaacac taaaccagaa  120
cgataacagg aaacaaagat acagtcagta cttagtagtt tgagggcacc tacggaaagc  180
aagtaatact acagagggta gacgttccag tgcttaatga tgaaacatca tcagtacaag  240
caaacgtgtt tttcatcata caccgtatca ctttcacaag tggctgcagt cantccgcag  300
cataaggaga ttgacttcga ngaagccagc atncaactttg cccaananga ncaagggtta  360
tcatgaagat gggganctcc tcattgctaa cgcctttcaa ggagacatct cctnagaagg  420
agaaggcctt t                                                         431

```

<210> 6232  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-F12

<400> 6232

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acgcgtccgc aanatttacg gtttcagaga tcggttgatt ttcacatcca caagtatggc   60
gactcaaate agcaagaaga gaaagtttgt agcggatggg gtattctacg ctgaattgaa  120
tgaggttctc acaagagagc tagcagagga tggttactct ggtggtgagg ttaggggttac  180
tccaatgagg actgagatta tcatcagagc tactcgtact cagaatgttc ttggtgagaa  240
ggggangaga attanggaat tgacatctct tgtccagaan agattcaagt ttccagttga  300
cagtgttgag ctctatgctg agaaaggtta caacanaagt ctctgttcca ttgctcaagg  360
ctgaatecnc tacgttataa accttctcgg tgggtccctg ctgttcccaa gggcctgtta  420
atggtgtttt tganaatttg gtaatggan aattggagcc taaagggaat ttaaggt      477

```



<210> 6233  
 <211> 457  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-F2

<400> 6233

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acgcgtccgc cnacgcgtcc gcggacgcgt gggcggacgc gtgggcaccg cacctattga 60
tcccaatgcc aaagaggtaa cgaagcgcgt ggactcaaac gagaaacatt ggtcgggatg 120
gaactggaga acggaagggtg acgttatggt taacggagct tttttcgtgc cgtcaggatga 180
cggagtgagc ccagcgtatg ccagagccac cagtgttcag cctaaagccg ccgcgatcat 240
tgaccagctc acggtcaatg cggcgtttt cggcgatcca agtgggagaa acggccaagg 300
aggaagcttt cccggaatta cgaacggtgg tgggacatca cgcgcggtta cagtaaaagt 360
ggacctgccg gcggtggcag cggcagtgac agttgatgat gggcttttca cattgataat 420
ccggtatacaa tagccggtgc cgttggtctt aaaggcc 457
```

<210> 6234  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-F5

<400> 6234

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aactttctcc gcgtcgtacc ggtcaaaaat tcccgggtcg acccacgcgt ccgaatcccc 60
tgaaagctta taggctccgt tgaacagtta taacttgtga aagttgaatc cttttaaaacc 120
gacagaggaa gatctcagat ggcaaacaag ataagtgaat ctgcttccaa gatggacgat 180
tatgaggtcg tggaacagat cggacgangc gcttttggtt ctgcttttct tgtaattcac 240
aagtccgaga gacgaaagta tgtggttaag aagattcggt tggctaaaca aacagagaga 300
tgcaagcttg ctgcaatcca agagatgagt ttgatataca agcttaagag tccttatant 360
gtggagtaca aagattcttg ggttgaaaag gatttgttat gcattgtaac tagttattgt 420
gaggggtggag acatgactca natgataaag aaatcaagaa ggantattcg cgtccgaaga 480
aaaaccctgt an 492
```

<210> 6235  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-F9

<400> 6235

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acgcgtccgg gatcgccata tcgttgatca agaccagagc gtcgtcgatc cggccgagtt 60
tgcagagacg agcgatgaga gtttcgtang agtgtttccg agtgtagccg gcgtcgggtct 120
gaggcaaant acggcggaga tcttctaagg aggaggagta agagtctgtg tttgttagga 180
atttgaaagt anctgtcgtg ttgaaacacg cgtttacgac gcggctgttg aggagacgac 240
gtacggcttc gaaatcgccg gagcttccgg ctttgaagat gaggttatcg aattcgacgc 300
aagtacnacy accaaggatga agcanttga ttgggattta cggaggagaa tgaacgtccc 360
gagattgant gaagcagaaa tctggaantg ttcgcttcct taacgaatcg tcggaaatag 420
acatcgtcgg attcangtca accgg 445
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<210> 6236  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-G11

<400> 6236

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gtcttctggc ngccacggtc cgaaanaccc gggtcgaccc acgcgtccgc aaaaaacgcg 60
gattaaagcc cgcgaaacag ccttggttta acctttagaa ttacnaccca caaaatacgc 120
caaactccaa gctcaaatac acagaccaat tcagatttct tgataaagcc gctatcttga 180
ctcctgaaga caagttgcag ccagatggta agcctgctga tccttgaag ctctgtacaa 240
tgcaacaagt tgaagaagtg aagtgcacgc tgagagtgcg tcctatatgg tttgcatcat 300
caatttacga cttaaccata actcaacata tggacttatc ccgtcttcca ngcccttcag 360
ancnacngtc gcttaggctc aggangtttt gtgattcccg nagccaccta ngtgggttttc 420
ttgatgacgg ggaatgacag ttttcatcat agtctacgac cgtgtacttg tccaaccatg 480
```

agaagaatta ctgtctaaac

500

<210> 6237  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E2-G2  
  
<400> 6237

acgcgtccgt gatcaattgt catccgaatg tctacgagac agattaatat ctgatgaacg 60  
atatagtatg gcggtgtata tgtgcaagaa atgcaagatt gatgttttcc ccgtgtggaa 120  
agcatgggggt cttgctttgt tacggatgga gcgctatgct caagctcgag tcaaattcaa 180  
gcaagccttt caattaaagg gggaagacat tcttgatgtc attcangaga taataaatac 240  
aatagaagga ggtccgcctg tggatgtgtc aattgtacgt tccatgtatg accatttggc 300  
gaaaagcgca cctacaattt tggacgattc tttatcagca gactcatacc taaatgttct 360  
gcatatgcc a tccactttcc ctggttcaaa agangtcncg ganatntctg ggaatccgga 420  
aaaagaatag ttctgtacc tgggtcagac tttg 454

<210> 6238  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E2-G5  
  
<400> 6238

acgcgtccga anngtgactg tgatcangtg aaggagctgc ttgaagatgc tgaaacaagt 60  
agagtcattc agtttttgat gggtttaaat gatgacttta atactatcat gagtcagatt 120  
cttaacatga agcctagacc tggactgaat gaantttaca acatgcttga tcaagatgag 180  
agtcancgat tggttggaca tgcttcgana cctactccct ctccggctgc ttttcagact 240  
caaggtttgc ttactgaaca gaatccaata ttgatggctc atggaaactt caagaaaccc 300  
actgtactca ctgcaatccg tattgggtcac actgttgaca agtgttacia agttcaatgg 360  
nnaccctccg ggaaaatcaa agggcaaata aanaaaagtt ccttgtgtac gganttncaa 420

aatccnaaca gcctccaa

438

<210> 6239  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E2-B9  
  
<400> 6239

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cagtccaaaa ttcttcgaaa ttgtcccgag ctttgagcat ataaaaaatg tcttcgataa 120  
tccatggagc tggagctgct acgacgacgt tatcgacgtt taattccgtc gattccaaga 180  
aactcttcgt tgctccttct cgcacaaatc tttcagtgag gagccagaga tatatagtgg 240  
ctggatctga tgcgagtaag aagagctttg gttctggact tagagtctgt cactctcaga 300  
aattgattcc aaatgctgtt gcgacnaagg aggcggatac gtctgcgagc actgggacat 360  
gaactattgc ttttcgaagg ctcttcaaga angtctggaa caagagatgg acaagagatt 420  
cacatgtaag ttgttatggg tgaaagatgt tggncattac ggangttcct acaaagg 477

<210> 6240  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB23-009-Q1-E1-F5  
  
<400> 6240

acgcgtccga atccccgaa agcttatagg ctccgttgaa cagttataac ttgtgaaagt 60  
tgaatccttt taaaccgaca gaggaagatc tcagatggca aacaagataa gtgaaactgc 120  
ttccaagatg gacgattatg aggtcgtgga acagatcgga cgaggcgctt ttggttctgc 180  
ttttcttgta attcacaagt ccgagagacg aaagtatgtg gttaagaaga ttcgtttggc 240  
taaacaaca gagagatgca agcttgctgc aatccaagag atgagtttga tatcaaagct 300  
taagagtcct tatattgtgg agtaciaaaga ttcttgggtt gaaaaggatt gtgtatgcat 360  
tgtaactagt tattgtgagg gtggagacat gactcaaatg ataaagaaat caagaggagt 420

attcgcgtcc gaagaaa

437

<210> 6241  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E1-F6  
  
<400> 6241

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aaaacccatt ttctaaaacc cttttctacc tccatcgatg gctctgtage cgagcttccc 120  
cgtcttgatg atcaacaacg tctctctgat tcttctctgc ataatacctc ttctggggtt 180  
tgggctgcag atcatcattt cttcctatca tggcttggaa aaatgcaagc tttgtatgaa 240  
cccatttggg aaaaagctgg aatttttgaa gcaatcaagg catccactta caaatcata 300  
aaagacacgt cctcgattct ctccattgcc gagaaatggg gttctgaaac caaatctttc 360  
atctttccat ggggtgaagc aacaattacg ttanaggatg tgatgggtgt tctaagggtc 420  
nctgttttgg gttccc 436

<210> 6242  
<211> 402  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-009-Q1-E1-F7  
  
<400> 6242

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cttcctaate ccattctttc agtcttctct ttcgcccttc tgagttcaac aactgtgtta 120  
tctctatgaa cagttccttt gatgaagaan acaaagtga agttgctgtc ttataacca 180  
ggatttggta agtccattg tntcagtggg caattcttgc cgtggatctt tcaaggacaa 240  
acncgangaa ggcgataaca atgagcctga agattactct aaaaccncta ccaccaactt 300  
gtcgnctaate tccgaccatt cancgaacgn tgcagacatc antgctcaag natctccaaa 360  
gacagcaaca ggaacaacaa caggaaagat cgaggtcntg tg 402

<210> 6243  
 <211> 395  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-F8

<400> 6243

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acgcgtccga aaaataaaat aaagaaaagg aacagtttat tttcaaaaat taaaaactgt 60
tcttattctc cacatccaca tgatctctac aatctccaaa cactgttttc tttcacacct 120
tacacaaaaa aaaaactggt cttttaaata attaaaaact gtttctttgt ttttttatta 180
ttattttgta atattgatac aaattttttg tttttataac actaatgcat atgtttgata 240
ttctcaaaat attttaatat attttataaa ttaatattta attaactctg cataacagtg 300
gcataattct agtatatata taattaaaga ggtttaagaa ataaggaaaa tttacgtact 360
catcanatta ttttactaca gacaaaattt tgcca 395
```

<210> 6244  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-G2

<400> 6244

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ctttccccgc ccgtaccggt ccanaattcc cgggggtcgac ccacgcgtcc gtgatcaatt 60
gtcatccgaa tgtctacgag acagattaat atctgatgaa cgatatagta tggcgggtgta 120
tatgtgcaag aaatgcaaga ttgatgtttt ccccggtgtgg aaagcatggg gtcttgcttt 180
gttacggatg gagcgctatg ctcaagctcg agtcaaattc aagcaagcct ttcaattaaa 240
gggggaagac attcctgatg tcattcagga gataataaat acaatagaag gaggtccgcc 300
tgtggatgtg tcaattgtac gttccatgta tgaccatttg gcgaaaagcg cacctacaat 360
tttgacgat tctttatcag cagactcata cctaaatggt ctgcatatgc catccacttt 420
ccctcgttca gagaagtccc ggagatcctg gaatcgaaa agaataattc tgtacctggt 480
```

<210> 6245

<211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-G5

<400> 6245

acgcgtccga agtgtgactg tgatcaagtg aaggagctgc ttgaagatgc tgaaacaagt 60  
 agagtcattc agtttttgat gggtttaaat gatgacttta atactatcat gagtcagatt 120  
 cttaacatga agcctagacc tggactgaat gaaatttaca acatgcttga tcaagatgag 180  
 agtcagcgat tggttggaca tgcttcgaaa cctactccct ctccggctgc ttttcagact 240  
 caaggtttgc ttactgaaca gaatccaata ttgatggctc agggaaactt caagaaaccc 300  
 aaatgtactc actgcaatcg tattgggtcac actgttgaca agtgttacaa agttcatggc 360  
 tatectccgg gacatccaan ggcaaataca cagagttctt gtgtaggcag tacaaatcta 420  
 acaaggcatc cgatnagtc 439

<210> 6246  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-G8

<400> 6246

acgcgtccga tcccaccaa gaagaaactg gaggagtacc ggagattgct gagtcttttg 60  
 gtaatatgga agtgactgat gagtctcttg atcagaagcc aggacaattt gaaagagact 120  
 tgtcgacgag aagcaaagaa ttcaaagagt ttgatcagga ctttgactct gttctcggta 180  
 aggattcgcc ggcgaaattt ccagggtgaat caggagtgtt tttcccgggt ggctttgggtg 240  
 acgagtcagg agctgagctg gaaaaagatt ttccgacgag aagtcatgat tttgatatga 300  
 agactgaaac tggaatggac acgaattctc catcaagaag ccatgaattt gatctgaaga 360  
 ctgaatctgg aaacgacaag anttctcccg atgggctttg ggtagtgaat caaganctga 420  
 nctgggaaaa agaatttgtc 440

<210> 6247

<211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-H1

<400> 6247

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acgcgtccgc ccacgcgtcc gagtgcgtgc acggtgcacc acgaatccac gatccagtga 60
gcagcagcaa ctccatctcc ggagctctag attcagataa gaacaatggc gattccgatg 120
cctactcgcc agctattcat cgacggcgaa tggagagaac ccatcttgaa gaagcgaatc 180
ccgategtta atccagctac tgaagaggtc attgggtgat attccctgca gctacaacgg 240
aggacgtgga tgttgctgtc aacgctgctc gaaagagcat tatcaaggaa taaanggaaa 300
agatttgggc caaaagcacc tggagctgtt tegtgtctaaa gtattacgtt ctattgctgc 360
caaaggtaaa tgaaagaaaa gacggatntg gaaaactcna ngcgcttgan tgtggtaaac 420
catttggtga aacantatgg gatatg 446
```

<210> 6248  
 <211> 442  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-H3

<400> 6248

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acgcgtccgc ggacgcgtgg gcggacgcgt gggttcgtct tcttcaactt ccagagagag 60
aacgtagcaa aacagggctt accggagcag aacggaaaaa cccatttcga agctggagat 120
gatcgtgcta aggagtacgt cagtctcttg aaatcgaacg atccaattgg attcaacatt 180
gttgatgttc ttgcttgggg ttctattgga cacatcgttg cttactacat cttggctact 240
tccagcaatg gatacgaccc aagcttcttt ggatgattcg tttcannnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncctctg 360
tttcttcctt cngttgttgt tggttgttgt ccaaaganct tgtcccctcc ttttgcaaaa 420
tgttttaatt cccatttan aa 442
```

<210> 6249



<211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E1-H5

<400> 6249

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acgcgctcngc ccacgcgtcc gggctacttc cttcttcggt cgactcgcta ggtcagctcc 60
gattacattc cctgtcgcac ttggatctca aagcaaactt ggntctggcg ctttccggtt 120
ctccaccggt gcaatcncgg cactttccgg tggattctcc tattactact tgacatccgg 180
caacaatctg gtttatctgg atcaagctaa ggaagagaca ggaccaaaaa ccgctctaaa 240
ccctgataaa tggctcgagt tcaagcttca agacactgct angagttagc cacaacactc 300
agttgttcaa gttctcattt gacccctcaa ctgagttggg tctaaatgtt ggcttcttgt 360
cnctgaaca aangggctcc cttaaggcta naaanggctg gaaagggaaa aacgaana 418
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<210> 6250  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-009-Q1-E2-A11

<400> 6250

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cgggtcgacc cacgcgtccg cccacaacgt cgggggnatt cnctcttnn gtgatntcan 60
agntctgttc cgacatcant ggctttttta gcgttgattg gtcngctcta ctccgaaatc 120
gtctgacttt cacagcagcg atgttcggct cttacgtccc gttttaatcg ggctctcggt 180
cggcacctcc agctttttca gtgaagatga ccgactcttt tcccgacagc atacggctcc 240
atcagcgggtg ttggctggat tttagtttta ctttggccat agatgagtta ctctcacctt 300
ttggctcttg ttttcccttc annaanttca gcaattatgt gttgggtgat aacganttaa 360
gtgctangtt gcctaaactg ttgattntcc gactcatgtt gtttgaagct gggtttacag 420
gaattaataa tnatatttgc agnttaaaaa ttgaagagna agaagaagat 470
```

<210> 6251  
 <211> 478  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-009-Q1-E2-B1

<400> 6251

tttttccgcg ccccggtggc cgnaaaaanac cgggggtcgan gcacgcgtcc gccacgcgt 60  
ccgatcaatt ctgcgatta agcanaacc tagatattatt ctactcttcg aagtcgattt 120  
caatggaagg ttctctgtca gccatcgga ggaagacatg ggagctagag ancaacattc 180  
tcccagtgga accaaccgat tcagcctccg acagtatatt ccactacgac gacgcttcac 240  
aagccaaaat ccagcaggag aagccatggg cctccgatcc taactacntc aagcgcgttc 300  
acatctcagc cettgtcttt ctangatgg tgngttcacg ctgcgtccgg tgggcacaat 360  
cgagatcatg ggtentangc agggtaaann cganggtgat acaatcatcg ttatggatgc 420  
ttttgccttg cctgtgtgaa ngactgaga ctacggtnaa tgccagtctg atgcctat 478

<210> 6252

<211> 445

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-009-Q1-E2-B2

<400> 6252

acgcgtccgc ccacgcgtcc ggaaaaactt tggatcaatc aacaatggcg gatctctctc 60  
ttctccccga ttccctcttc ctcggttcg acagctctac ccagtcaatg aaagcaactg 120  
tgttggttc gaacctgaac attatcaaaa ccgaactcgt tcatttcgat tctgatcttc 180  
ctcaatacaa aaccaaagac ggggtttaca gagacactac tgtaaacgga agaatcgtat 240  
ctccaactct catgtgggtc gaagcatttg atctcattct ccagaagctc tctaacgcca 300  
atttcgattt cgccaaagtt atcgctgttt caggcaacgg gcaacancac cggtagngtg 360  
tactggtcaa aagtagttct gaggtactga natnattgga ttcaaagaga tcattganng 420  
aacaagctcg aaaagctttt cggtt 445

<210> 6253

<211> 446

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-009-Q1-E2-B5

<400> 6253

acgcgtccgt gtntttatag gttgtgtata gtctttcttg gtttcgatgt gttctttgtt 60  
gtttttctgcg ttgcattggc ttgtgttata ggcattgctg tttgctgctg cttgccttgc 120  
atcattgcag ttctatacgc cgtagcagaa caggaaggag cttcgaaaga agacattgac 180  
caacttacta aattcaaatt ccgaaagggtt ggtgatacta tgaaacacac tgttgatgaa 240  
gaacaaggac aaggagattc tggaggagtg atgactgaat gtggtacaga ttcacccgtt 300  
gaacatgctc ttctcatga ggatgcagaa tgctgcattt gtctttccgc ttatgaagac 360  
gagacagagc taagagaact tccttgtggc caccatttcc attgcngttg tgtggataan 420  
tggttttaca taaatgcact tgtccc 446

<210> 6254

<211> 439

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-009-Q1-E1-F2

<400> 6254

acgcgtccgc ccacgcgtcc gcggacgcgt gggcggacgc gtgggcaccg cacctattga 60  
tcccaatgcc aaagaggtaa cgaagcgcgt ggactcaaac gagaaacatt ggtcgggatg 120  
gaactggaga acggaagggtg acgttatggt taacggagct tttttcgtgc cgtcaggatga 180  
cggagtgagc ccacgcgatg ccagagccac cagtgttcag cctaaagccg ccgcgatcat 240  
tgaccagctc acggtcaatg ccggcggtttt cggcgatcca agtgggagaa acggccaagg 300  
aggaagcttt cccggaatta cgaacgggtg tgggaccatc acgcgcggtt acagtaaaaag 360  
tggaacctgcc ggcggtggca ncggcagtga cagtgatgat gggcttttca cattgatatt 420  
cggtacaat aacggtgctg 439

<210> 6255

<211> 447

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-D11

<400> 6255

acgcgtccga ggatatctag ggctaattgtt gcttcttgat gagagacaag aagtgttgat 60  
gcttgtcaca aattcggtta aacaagatct taatcactcg aaccagtatg ttgtaggact 120  
tgctctctgt gctttaggga atatttggtc agcagaaatg gcccgatgc ttgcgccaga 180  
agtagaaaga ttaatccagt ttcgtgaccc taatatccga aagaaggcgg cgctttgctc 240  
tactagaata ataaggaaag ttccagatct agcagaaaac ttcgtaaagt ctgctgcttc 300  
cttgcttaaa gaaaagcatc atgggggttc tataacanga gttcaacttt gttatgaatt 360  
atgcacgatt aatgatgaag ccttagagta cttcaagaac gaaatgcaca gaaggactgg 420  
ataaaaaact ttganggata ttactaa 447

<210> 6256

<211> 479

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-D3

<400> 6256

ngtnccggtc caagaattca egggtcgacc cacgcgtccg gttgttcct tatataaaga 60  
aactcttcct ttcataccaa aaaaaaaaaa aaaatccatt ttcatttctc ctcttaaaaa 120  
accgccatga cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna 180  
agctacgacg gtgggttcat cgagccgcc gatgcagaac atgacctcag agccactgat 240  
ctccataatc atcgccatcg tcgccaccgt aaccaccatc gcggagaaga gtttgagtac 300  
tcagccatat catgtagagc ttactcagcc tcattggacg agtttggcgc cgtaggagac 360  
ggtgtaactt caaatacagc ggcgtttcgc gacgcggtgt cacaacttaa ccgtttcgca 420  
gactaagggtg gctcaatggt aattggtccc gcccggaacng gtggggtcaa ccggaact 479

<210> 6257

<211> 447

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-D4

<400> 6257

aattcanggg tcgaccacg cgtccgagga cgcgtgggcg gacgcgtggg ctctctctca 60  
ctttcgaata tatcttagat aacagagaca catactctta agtttggtga agaataagaa 120  
gacaatgacg aaggaagtgg ttggtgataa gagatctttc tccgggaaag actatcaaga 180  
cccaccacct gaacctctat tcgacgctac tgagcttggg aagtggcttt tctacagagc 240  
tctcatcgct gagttcatag ccactctcct tttcctctat gtcactatta tgactgtcat 300  
cggttacaag agccagaccg ntccagccct gaatcctgac aantgtanag gcnttgggcg 360  
tccttggtan cncatgggcc tttgggggca tgattttcan cctcgtcnan ngcaccnccg 420  
gatctcnggn gggaatatta acccggg 447

<210> 6258

<211> 440

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-007-Q1-E1-D5

<400> 6258

acgcgtccgc ccacgcgtcc ggactactct catcattgct catcgcttt ctaccattcg 60  
aaaagctgac cttgttgctg tgctacagca aggaagtgtc tctgagattg gaacgcatga 120  
tgagcttttt tccaaggag aaaatggagt ctatgctaag ctaattaaaa tgcaagaagc 180  
agctcacgaa accgccatga gcaatgcaag aaagagtagc gcaagaccgt cgagtgctag 240  
aaactcgggt agctcgccaa taatgactcg gaattcgctg tatggaagat caccttattc 300  
acggagacta tccgatttct caacttctga ttttagcctc tccattgacg cttcgtccta 360  
ccaaaactat agaaacgaag aactggcctt caaggatcaa gccaatcat tctggcgact 420  
agctaaaatg aatctccaga 440

<210> 6259

<211> 440

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-D7

<400> 6259

acgcgtccgc aacggtcgag agatgggtggg tctgggtcga gaacccttga acgtatatga 60  
caataatgca atcagagtac tcaacacgcy atctgagcaa gtgggtcaca tcgagcgtac 120  
agtagcagcc gttctcgcgc cgatgattga ttctcacacg atcgtcgtcg aggggtattgt 180  
acccaatact cgttctaact ccaataggta cagaatccct tgtcaaattc atgtattttgc 240  
aaagttagaa gcgtcctcta ctgtgaaatc gacgatttct agaggtgggt tagtattgat 300  
ttcggagtca gatacatcgt ttgggttata tgaggctgtt gtggttaagg aacagatggg 360  
aaatggagat aagangagtg ttgataagat ttttaaactt gttgatgana atgtgaaatt 420  
aatggggaaa ttggtaacgc 440

<210> 6260  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-E1

<400> 6260

gtgccgggtcc aagaatnacg gggtcgacgc acgccttcgt tctcaaccga ctccaaatnc 60  
aaaanncaac ccccccaac cccaattccc cgggtccaat aactcaacgt cccaacccaa 120  
atttaaccct tncgnaataa attttaacgg ggggaggatc aaatccgccg attctgttgt 180  
aacaagctac tgtatttttg gcttctcatt tgatattggg gaaacgagga gtagaggacg 240  
atggaaaatc tgatctctct ggtaacaag atacagagag cttgcacggc tttaggagac 300  
catggagact ccagcgcttt acctactctt tgggattcct tgcttgcgat ngccgtcgtt 360  
gggtggtcaga gctcaaggaa gtctcagtc tggagaacat cntgggaaaa ggacttttaa 420  
cccgtggatn tggcaatgtt actccaaagg ccccttgcct ana 463

<210> 6261  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-E8

<400> 6261

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tctcattccg tctacaagag cttgcgtgaa tccattaaag ctctcaaagc ttgtgagtca 120  
gtctctcctt tagccggatc gcttggata acggaacagt gcatcgactc tatagtctcc 180  
agagcttcct cagctgatcc ttcactcttc gggtggccag taaacgatgg cggcggaaga 240  
ggaaacatct ccgccaccga tctgcaactt ataccggcg gcgcggcgaa atctcgaaag 300  
aaaccgagta gagattcgaa catggagctg tggtttgaag atctgacgca actgagtctt 360  
ccgatcttca aaactgtgat cctatcaatg agatcaggag atctgagctc cgatatcata 420  
gagagctggt tgatttggtta cgc 443

<210> 6262  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-F11

<400> 6262

ngcccgggcc aagaataacc gggtcgaccc acgcgtccgg cttaaatacat gcagcggcga 60  
ctattgggaa caaaatgata gtagttggtg gagagtctgg tagtggttg ttggatgatg 120  
tacaggtgct taactttgat tcatgtacat ggtccaccgc atcttcaaaa gtttacttat 180  
cgccgagtag tcttcctctc atgatccctg cttggaaagg ccattgcttg gtctcttggg 240  
gtaaaaaagt gctgttggtg ggtggaaaaa cagatcctag cagtgataga gtttcagtgt 300  
gggcatttga tactgattcg gaatgctggt cactaatgga tgcaaaagga gacttaccgg 360  
tcagtcgcag cggtcacaca gtggtgaagg ctaattcggg attgatacta ttcgggtggtg 420  
aagactctaa gaangangaaa ctaaacgatc tcanatgttt gatctcaaat 470

<210> 6263  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-F7

<400> 6263

acgcggtccgg gcgtattctc ttctacatt tccccagcc ttaccttgct cgtcaaccaa 60  
aactttcttc tccttggcta ccttccgac tcctttctta agattcaatg gttccacttc 120  
cttaatcccc tcctctatct ccatcacttc acgtggcaca tcttccccga ccatcatccc 180  
acgtgctgcc gctcagaat cagactctaa cgaagcccta gccaacacaa ccttccacgg 240  
cctctgctat gtcttgaaag acaacataga cancgaaacag atnatcccaa canggagccg 300  
cttgcaacttc catcgaaaca agcaagaacg tgatnagatt ggogctcaag ctctctcngg 360  
tcaacaanac ttccacaaaa anacgggtta attgagccaa gganaaaaa 409

<210> 6264  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-F9

<400> 6264

acgcgtccga ggaattctga tagannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnggaaa ggattgaaga accctaattt gattcataag aaagacacta ttttagatt 120  
ttgcgtttgg ttgattagag taaccctaatt ttgttactcg gatctaattcg tctactttga 180  
cttaagatga atgatctgta aatatttaga tctaactgt cttgagaaag tttcaatttt 240  
ttcttaacgg tgaatttgat ttcttattct tcagtatata tactcttcca caaagaagat 300  
gctcaaggtc cctgaacacc aagttgctgg gtcacattgc taatgatggg aanctccggt 360  
ccactcgtag atgaccaang ccggttcttc aaagccactt caaggaaaat tctcgtggcg 420  
aacacgaagc naaagtt 437

<210> 6265  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations



<223> Clone ID: LIB23-007-Q1-E1-G1

<400> 6265

ggtnnccggtc cagaattcan gggctccatt ggtgagctcc acctcttctc cgatgaggct 60  
tttccggcga atccggccat tgatcatctg caaatctcag gtttcttccg acgatctcca 120  
tcttccactg tcacttctag cacttttatt cccaatttc tattgccttt aggctgtagc 180  
tgctccatct caatttctgg gttttgcacg agaaccctta atccctcctt ttttttttgt 240  
ttctcgctga aactttcatg agctactcca cctggaacct atcactttct aacacggctc 300  
caaaatattc cgaggtagct tcttcccaag tacttttttc aaatctatcc tgcaagatna 360  
agtcacaaac actangactg tttctccaat gaacaacgaa agcctttcat ccngttaaga 420  
tgaactccgc aagctcctaa atccggattc cttgaaacct caacacataa actccaaaag 480

<210> 6266

<211> 432

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-007-Q1-E1-G10

<400> 6266

acgcgtccga tttagagcgt gtgagggaga taggaagaga gaaagtgagc gagagacgat 60  
cacggccgcg ctgaaatcca cgaccacggc cgcgctgaaa tccacgacca cggccgctct 120  
gaagaagaag actctctccg tctctcctt tctctcctc cgtctaagag acaaggcatc 180  
cccagacgcc atgatctctc tcactcctc gttgtttctg aacaagacgg ttgttcctgg 240  
atgttccaca cgctctctc tgcgccagcc tagaactata attactctc ctgcttcctt 300  
gagagtcttt tctctctcg gatctaacca ggatcccacc ggcagcgttt tgattgagac 360  
cactgccact tcactcctc ctctcgagac ctccgccgcc gacattgttc ccaaatccaa 420  
cgtatctggg gg 432

<210> 6267

<211> 441

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-G11

<400> 6267

acgcgtccga taatattcaa atggtggaag caggaaacat gctgatatca atccaagtgc 60  
ttcgtttctgt gactaacaac ttcagttcag ataacattct tggatcagga ggtttcgggg 120  
ttgtgtataa aggcgagttg cacgatggaa cgaagattgc ggttaagaga atggagaatg 180  
gagttattgc tggtaaaggc tttgcggagt ttaaatacaga gattgcgggtt ttaacaaagg 240  
ttaggcacatcgc tcatttggtt acgcttcttg gttattgttt ggatgggaat gagaagttac 300  
ttgtgtatga gtatatgcct caaggacat tgagtangca tttgtttgag tggtcagagg 360  
aaggacttaa agcctctgtt gtggaaacag agattgactt aactttggga tgttgctaaa 420  
agtgttgat aacccaagg a 441

<210> 6268

<211> 447

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-H12

<400> 6268

tanccgggtc gacccacgcg tccgccccca cagatgaatc tcaaatgat ggtagtgtcg 60  
aaaaggagga atcagacgag gttaagaaag tggaggattt tgtaaccgag aagaaggaag 120  
agttgtcaaa ggaagagttg gggcgtcttg ttgcctctcg ttggacagga gagaaatctg 180  
ataagccaac tgaggcagac gatatccccca aagctgatga tcaggaaaac catgagcaca 240  
cgcccatcac tgcacatgaa gcagatgaag atgatggatt tgtttcagat ggtgatgagg 300  
ataccagcga tgatgggaaa tacagcgacc atgaacctga agatgattcc tatgaagagg 360  
agtatcgcca tgattctagt tcttcataca aatctgatgc agatgatgat gtcgattttt 420  
cagagacnac ctcaaactct acttgggt 447

<210> 6269

<211> 432

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-C7

<400> 6269

acgcgtccgg gctaagggtgc tttacagttt catgaccggg tttgtgagca agaatacctag 60  
gagttcttac ttcaattacc gggatgtcga tatcgggtgtg aatgatcatg gggcgaatag 120  
ttacaaggaa ggagaggtgt atggaaggaa gtatttcgga gagaatttcg atcgattagt 180  
gaagattaaa accgcggttg atccccgggaa tttcttcagg aatgaacaga gtatacctac 240  
cttgaaaagt aaggcataat tgatatatga tcatttaata taaagattgg cttcctataa 300  
tgtaatgttt agtgaancac tatagaatat atgggttggg ataattgtan attgtatagt 360  
ttccccngtt catggaactc tacaacaaac cncattgata agtgtaancc aaaattgggt 420  
ttggtanaac ca 432

<210> 6270

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-007-Q1-E1-A8

<400> 6270

acgcgtccga gcagcaattg ttacgacagc aacagcagct gtattctcag gtttttgctg 60  
atcaacagcg ttctcagcaa cggtttggag acccatctta tggtcagttg caggcgtctc 120  
ttgatgcgct taggctgcaa ccatcaaaag atatgtcaca agtcaatcag cagggtgcagg 180  
ttcctgtttc ccatgaggag cgaggcatca acttagctga tttgctccca gtaacccatg 240  
ccactaatca gactgttgct tctttcgaaa cccctctctg cacctgcaaa acaactatct 300  
gggtaatgtt gaccctagga tggttctgcc tgatcaaatt gatgataccc ataaaaaaga 360  
gtcgaatcag aatatgaaag aacagtttct gcagactatg tgaacagctt gtactcagaa 420  
aagccgtcct ttccctg 437

<210> 6271

<211> 492

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-B1

<400> 6271

aactttctacg cttgcccgtg cngtcaana aattcaaggg tgcacccacg cgtccgcgga 60

cgcggtgggcc tcaatnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnngac accagggtcc caatgaccac gagaaagggg 180

cctccaagca ggttggaagg cgggagcgtg ctaaaccgga tccatcgaag caccaccaca 240

ggtctcatct tcctcattct aagaaaatcg agaccgaaga agagaggagg cttaggaaga 300

agagggagtt agagaaacaa aggcaagacg aaaaacatag acagcagatg aaaaattctc 360

acaagtctca gatgccaan ggacacaccg angagaagaa accgacgcc ctactcanca 420

acgacagggg cgagaatagt taaagaaacc aaacaacttc atctgcaagc tcaagttccg 480

gatgagtcct ga 492

<210> 6272

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-B11

<400> 6272

tnccgggtcg acccagcgt ccgaactcca aaagcatctc tetgtttctt ctctctctt 60

caagcttttt gtttcgtctc agtcgtcgtc atcatctctg acagatctaa gaacaagttt 120

cgagattgga tattgacgac aacgatatgg gacttgagg tagtgaaaca atggaatgca 180

agtgtggtat gcctctgtgt atctgtgtag ctctcccaa atcaactgat aaaccaaacc 240

cacctgctac cattgctcct gtggttcttc ctcaattgaa gtcagaggct tcagcaaaaa 300

gtaaaggttc cacttcagc agcaatgcta gatnagctct aaatgctgga ctagacaccc 360

cccaaagaga ctatgaagcc agtggggaag gattaaagag aagcgattaa gaatggtgac 420

aagtgctggt gcgaaaaaac ttctaaaaaa ggcgttagat g 461

<210> 6273

<211> 478

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-B12

<400> 6273

tttactcgnc agcacggtec aagaatnccc gggtcgaccc acgcgtccgc ttgtttcaca 60  
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cttcttcctt tacatctgaa tcgttgagtt aactcggatt tgttctgcat cctctgtttc 180  
tgaatcgtgg gccatcctta ttttgtctcg aattcttcac caattgcttc gatcaagctg 240  
cattgggttaa ccagttgccc taaagatcag atctttgagc aaaattttgt cactgatctt 300  
ctaaatccaa accagacaca gcaaaacaac ctctgtagat gattcgagaa atctcaaact 360  
tacaaaaaga tattataaac attcaagaca gttattcgaa caaccgagtc atggacgtcg 420  
gaagaaacaa ccggaaaaac atgagctttc gaagttcgcc gggagaaaag caagcaag 478

<210> 6274

<211> 492

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-007-Q1-E1-B3

<400> 6274

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tgtgttttatg attcaagaag tgtctactga ggaacctcga ggttcctgtc tcagactcac 120  
attcgctgt aactcttttc tatcatggtc aactatgtca ggcgttcttg atagtgttc 180  
gatttggtgc aagaagatac aaatctttga gaagaagggg ttgactctcg gggttgttct 240  
tcttctggat caatctgggc aacatagttt gtttaaaacc cgggtagaaa acaccctcaa 300  
ggttgcaacc aaaaagccaa aaccgacatc tgtaagctc cctttcgggc tttgtggctg 360  
tcaagaacag aacggtggtg tangggaact tggangtggt gaagaagagt ccattcagca 420  
taataatang ctaaggatag aaaacttgaa taatacgatt caagatcaag gttcacttcg 480  
agttctcaat tt 492

<210> 6275

<211> 502

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-B4

<400> 6275

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ggagtcattg agctgggcgt cactgaattg atttcagaag accataacct gcttcgaaac 180  
atcaaattctt gcttgatgga aatatctgca caccaagaca acgatgacga gaagaagatg 240  
gagattaaga tcagtgaaga gaagcatcag ctccattag gtatttctga tgaagacttg 300  
cattacaaaa gaaccatttc aacagtactc aactactccg cagatagatc aggtaagaac 360  
gataagaaca ttcgtcatcg tcagccaaat attgttactt ctgaacctgg ctcaagtctc 420  
ttgcggtggg aagcaatgtg aagcagcaag tctcgggttt tggttcagaaa aaaaagtcac 480  
aaaatgtggt gccggaagat at 502

<210> 6276  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-007-Q1-E1-B5

<400> 6276

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ttccgtgtcc gtgctgggga accaaccgac atgaaaacgc cggcgagggtg gcggatcgtg 120  
atccggtgct tctagtatct ggaattggag gctctattct gcattctaag aagaagaatt 180  
caaagtctga aattcgggtt tgggtccgaa tatttctagc taaccttgcc tttaagcaga 240  
gcctctggtc tctctataat cccaaaactg gttatacaga gccgttgat gataatattg 300  
aagtattggt ccctgatgat gaccatggac tctatgcaat tgacattcta gatccctctt 360  
ggtttgtaaa gctttgtcac ttgacggagg tttatcactt cacgatatga tagaaatgct 420  
ggttggatgc gggtata 437

<210> 6277  
<211> 442  
<212> DNA

<213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-007-Q1-E1-B8

<400> 6277

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acgcgctccgc ccacgcgtcc gctctctctc tgetccattt ctctcacttt cttcacatct 60
ctgaagctct tcgtcacgca tctacaatgg catcgatgat gcaaccgcag atcatactgc 120
tgaaggaagg gacggacaca tctcagggca aagcgcaact agtaagcaac atcaacgctt 180
gcactgctgt tggagatgta gttcgaacca cgctcgggcc acgagggatg gacaaactca 240
ttcacgacga taaaggatcc gtcaccattt ctaacgatgg tgctaccatc atgaagctcc 300
tcgacattgt tcctcctgct gctaagatcn tcgtcgatat cgccaaatcc caagactccg 360
angtgggtga tgggacacta cagtgggttct tcttgccan antttttgaa ggaagcgaaa 420
ncatttattg aggatgggtgt tc 442
```

<210> 6278  
 <211> 496  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-007-Q1-E1-C1

<400> 6278

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agacgaccac tcatagtaat cgttatcttc atttatataa ccgccggcgt gaaaatcgcc 120
gccgcggatg agccggtgcc gacgccatgg ccacaccagt tccacgcgt aatgttcatg 180
aattactccg gcgatctctc gatgatcgac ctttggtacg actggaccaa cggtcgtaat 240
ttcaatatca tccaggagca gtcggtggt attacctacg accttgaatg gaacaatggt 300
acttccttct ttacacgct cgacgagtca aaatcgtgcc gtcceggta gtcgaggtt 360
ggaatactgc gaccaaactg gctagatgga gccaaagtact tggtaacag aacgtgagtg 420
ggtttcctct gcaatggtat ggggaaaaag gtagacnttt atatgggtac taatgaaaga 480
tgttgaaanc caagaa 496
```

<210> 6279

<211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-007-Q1-E1-C11  
  
 <400> 6279  
  
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 agcatttgat cttcaaactc ttgggttctt ctctgattga aaatgagctt atcatcgcca 120  
 accagtgcct gtagctcgtc cagatgttac tcctcgggat tatcgtttcc gattggattt 180  
 ggatcgaatc ccatcaatgt gggattggtt tgttaccxaa aaagatacag tattgctgct 240  
 cggaagttcg tagtggcttg ctctctctcc tcttcgatn cacttttggg taaggctgca 300  
 aaagggcaag ccataagtcg tcctccagct tggatgatga agcaagcang aaggtatatg 360  
 gctgtttacc aaaagctcgc caagaaacat ccgctctcan annagagatn agagaacact 420  
 gatnctaata gtggaaaatc tccttg 446

<210> 6280  
 <211> 434  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB23-007-Q1-E1-C12  
  
 <400> 6280  
  
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 tcttcttctt gcgtcttctc tgctctctgt gtctctctgt tatttaattt taatcgattg 120  
 agatcgcttt tagctctcgt ctttgaattt tacgggcaga aaatgggtga agaagctcga 180  
 gcgttagata tggaggagat cagtgacaac acgacgagac gaaacgatgt cgttcatgac 240  
 ttgatgggtg atttataccc gcttagcagc tactacttcg gttcaaaaga agctcttcgc 300  
 gtcaaggacg agattatctc tgatcgagtc atcagattga aatccaatta tgctgctcat 360  
 ggattgagaa cttgcgttga agctgttctt ctgggttgagt tgttcaagca tcctcatggt 420  
 ttgcttcttc aata 434

<210> 6281  
 <211> 495



<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-007-Q1-E1-C2  
  
 <400> 6281  
  
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 gaaggagctc ttaaaggcta tagacttaag acttgaagct attaaaaagg acttgacaac 120  
 gtccatttct catgcatcag ctagecggtt cgaccctcat actgtttccg aactcaaaca 180  
 atttgctgat agatttagtg cacatcattt ggatgaagca tgcagtaa atctctcact 240  
 atggaagcaa aggccagact tgatcgacat gaagtactcg aatcagttgg ctggtgttga 300  
 caatgtcagc ctccaaaaag atagcacgcg ccagaagcaa aatgcggtaa acgaatcaga 360  
 acatcaaatt caacagtgtg ctactacaan taccaaaagg aatgaagagg agaaaactga 420  
 tgacantttg gatgtaaccn cttctacagt taagactacc caacacacaa gacgacncat 480  
 tgtgcaagga tagga 495

<210> 6282  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-007-Q1-E1-C3  
  
 <400> 6282  
  
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 aacgaaaaca ttcttcttga aatgccagtt cccattgtta tcaaggaagc aatacctaaa 120  
 tctggaaaga acagcctcgg tgatgaactg tacaagatgt tggctgtgga atctgcaaca 180  
 gtagatgaaa tctttatata gctcaatctg ggaaccgaac atgcagcact cgagacagtt 240  
 aacaagttag aatctgctat gtttgcttgg aaagaaagga ttacagaaca aggcagcaat 300  
 ggtaaattccc ctgtaagagc atcgtggtca ttcgctaaag attcgttgtc tgaaattggg 360  
 tcgcaatgag tcaactcctg aaccgagcaa gaaaccgct aagaaactca agattaaatc 420  
 ccaaacaac cctaattctc cctcaactc cgtttcttgg atngctacaa aagattccaa 480  
 ttatgaccaa gggacattan 500

<210> 6283  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-007-Q1-E1-A4

<400> 6283

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ttacacccct tggtcggcat ctttgactc taccgtgga cccaaatatt ggaaagatgc  180
ttctgattgg agctatcttc cagtgcgtca atcctgcttt gacaatcgct gctgctctgg  240
cgtatcgtag cccatttgtc ttaccattaa ataggaaaga ggaagctgat gaagccaaac  300
gatattttgc tggtgattcc tgcagtgatc acattgctct tcttaaggca tatgagggat  360
atcgggatgc aaagcgtggt ggaaacgaaa aagatttttg ttggcaaaac tttccttccc  420
ctgtaactcc aaaggatgat gggaggatat gagaaaacaa tttccttgat ctccaacaan  480
atataagggt tg                                     492
```

<210> 6284  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-G7

<400> 6284

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ctcagcacca tcaatggacc gcccgagac gatcgccgtc aaatgcgaac ccatgaccgt  120
tgactctcct tctcgacctc taaagcttgt agtttttagct gaccttaatt tcaatcctcc  180
tgagactgat gatcttgact catccattcc aatccctact cctcctccca tctactaggtt  240
gagtaacgag gaaagtcac aagaggagg tatattaaca tgcaaggagg tggaccagg  300
agaagtagaa gccaaaaaga tcagcaagggt gggaaaatgc cgctccagaa gtaagattga  360
gtcttctct gattgtggag ttgatgcaga tggatgatctg gctaataag gggtcctntgc  420
```

atccccgggaa gaaaaaatca gtaactcaaa atgggtttga ttcattgttg aaa 473

<210> 6285  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-G8  
  
<400> 6285

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cgagagacga gagctaaaga actacttcca aaaaaatgcc gattgctgag cttgctgtaa 120  
tcaaaacagt ggggtggcct ctgatagcgg ctgctcttgg agttggagcc caagtcattt 180  
acgacggctt cagaaaagga aaagatacat ctatcataaa ccgtctcggc cgtacaatgg 240  
aaagtatcag tccggtgcgg gatcgaatcg gtaagctcag taatgtggaa ggtaaaccat 300  
ttagggaagt ccacgaaagt cttacgcgtc tccttgaaga tgcgaaatct attattgaga 360  
aatattggaa actcaagatt ggagcaagac acgtttgcag gaagtacaag tttgtatatt 420  
ttacatgaaa attnaa 436

<210> 6286  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-H1  
  
<400> 6286

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tttgggcctt cttatanaaa gaagaactca anagcacaga gagaagatga gcgaagaaca 120  
accacacgcc aatctagcgg tccccgcgtt taaaactgag aaagagccca taacgcaaac 180  
acgaaatggg caaagtagcg tttggcggtt cgggtggaagt gataaggcag cgaaagcatc 240  
caccgtaacg cttagagggtg tcattctacat gctcttcgac aactgcggca aagacgtcaa 300  
taagaccatt ttaccctctg gccacggtga cccttcgctc tacccttgc ttccgtacct 360  
gtatcgaagc tgaagacgcc gtcgtcgacg tccttcgctc cggcaaaggc aattettacn 420

gtcccgggag ctgggaatct ccccgaaga cn

452

<210> 6287  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-H11  
  
<400> 6287

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ttcgtctgtg attctcgagc tcttttgggg tttctccgag atttttggtc ggttcttcac 180  
gttttgttta tggcgggtgat tacgtgatga aagtcaccgg aaagccgtat tcgacggcga 240  
cattaccggc ctttgagtcg gataagaatc tcttctctca cggtcacat ctcagagcta 300  
ttcaaagagc tactactgtc actaaacgtc gagctaggaa cccgagtttg actcgtcagc 360  
gaagatccgg tccttctggg ggcagacgaa accggccgga gactccttta ttgaaatggg 420  
aaagtggagg atcggatana gaagagaaac cgggttggtat naaacgataa ttggaa 476

<210> 6288  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-H2  
  
<400> 6288

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ctaattggaa tgaagagtgg tggcctcagc ttggtttacc aaatgagcaa ggtcctcctc 120  
cttataagaa gcctcatgat ttgaagaaag cttggaaagt cgggtgttta actgcggtga 180  
tcaagcatat gtcgccggat attgcgaaga tccgtaagct tgtgaggcaa tcaatgcttg 240  
caggataaga tgacggcgaa agagagtgtc acttggcttg ccattattaa ccaagaagag 300  
gttgtggctc gggagcttta tcccagtcga tgccctcctc tttcttcttc ttcattatta 360  
ggaagcgggt cgcttctcat taatgattgt agcgagtatg acgttgaagg tttcgagaaa 420

ggaacaacat ggtttccatg tggaaaancc gga

453

<210> 6289  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-006-Q1-E1-H5  
  
<400> 6289

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ctttgagtct tttttcagat tgcagggctg gttttatata tgcttcaaat ctcttaccce 180  
aatcaggtat ggagactctg catccattct ctcacctacc tatctctgac caccgggttcg 240  
ttgttcaaga gatggtgagc ttacacagct cgagtagcgg tagctggact aaagaagaga 300  
acaagatggt cgaacgagct cttgcgatat acgctgaaga ctgcctgat cgctgggtta 360  
aagttgcttc catgatccct gggaaagact gtttttgatg ttatgaagca atatagtaag 420  
cttgaagaag acgtttt 437

<210> 6290  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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canagactaa aaaggctggt caaacagtaa taattcttgc acatgaacac taaaccagna 120  
cgataacagg aaacaaagat acagtcagta ctcaagtant tgagggcacc tacggaaagc 180  
aagtaanacn acagagggtn gacgttccan tgcttaatga tgaaacatca tcagtacaag 240  
canacgtggt tttcatcata caccgtatca ctttcacaag tggctgcant cattccgcag 300  
catnangaga ttgacntcga naagcagcat caacttttgcg cagaggagca ttggctacca 360  
ggagatgggg acctctcatt gctacgcctt tcaagagaca tctccttang 410

<210> 6291  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-006-Q1-E1-H9  
  
 <400> 6291

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aaaccctttc aaatctcttc ttctaccaa tatatttttt tggatgaaaa aaacttctac 180
caaattctca gattttatct ccttgagggt tttgtgtttt ttttgcattg tctagttgat 240
ttctgaaatt taagtatatc ttgtttacga taatatagaa aaaaattatt ggtgtttttg 300
tgtgtttata atttatcttg ggtcaatgat aatagtggac gacgagtcgg tgtcttaggg 360
tttacttttt gtaaagaaaa ttttcttggt gaattattgg ctttttgtga attcgatttt 420
cncctaatta a 431
  
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<210> 6292  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-007-Q1-E1-A1  
  
 <400> 6292

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tttccatact tggccttcac taaagattaa gtttttgcac ttctctcttt ctctcgatcg 120
ctgcttcttc gtcgtcaat ctcaagctcc gttccgtagg ttcttcgtcg gagagacggg 180
gtggagagaa tcctgctgca agtggttagt gtttgatact tgagtcattt tgtcacagca 240
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agaagcaaac ttctgcgtg gtacagctaa ccaatactac ccatcattat gttgcattta 360
aggttaaaac cacatcacca aagaagtact gtgttcgtcc aaatgttggt gttgttgcan 420
ctaaatcaac ctgtgaantc actggtcant aagcaaagct ttaaagaaac anctccagat 480
  
```

<210> 6293  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 6293

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actcttatgg ctctctctcg gattccttcc tctgttact acggtggatc tcggtttaggt 180  
tgttcgaccc ggttcttctc aattcgatgt ggagctaacc ggtcagggtc tacttactcg 240  
ccgcttaact ctggctctaa ctttagtgat cggcctccga cggagatggc tcctttgttt 300  
ccgggatgcg attatgaaca ctggcttatt gttatggata aacctggcgg ggaaggcgcg 360  
actaagcagc agatgattga ttgttacatt caaacctag cgaaagtcgt tggaaatgag 420  
gaagaagcga aagaaaccaa tctacaatgt ttcaatgtga agaagggtatt taagggttgg 480

<210> 6294  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-A11  
  
<400> 6294

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gagccgccac gtctcagtga tccgactacg acacctttct tcactcttct tcttgctgtc 120  
tctctgctct cgtgggtctc ctgttattta attttaatcg attgagatcg ctttttagctc 180  
tcgtctttga attttacggg cagaaaatgg gtgaagaagc tcgagcgtta gatatggagg 240  
agatcagtga caacacgacg agacgaaacg atgtcgttca tgacttgatg gttgatttat 300  
acccgcttag cagctactac ttcggttcaa aagaagctct tcgctcaag gacgagatta 360  
tctctgatcg agtcatcaga ttgaaatcca attatgctgc tcatggattg agaacttgcg 420

ttgaagctgt tcttctgggt gagttgttca agcatcctca agttttgctt cntcaatata 480  
gaaactc 487

<210> 6295  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-A12  
  
<400> 6295

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tcttttgctg gttttaaaatt catttcattt tattanaaat tcgctaccgt tttttttctg 180  
tcaccggagc tccttcttcc agatcgtgct tgatgtcccg gatatgattt tttagttcca 240  
aatcttgaat cttttgattg gataagaaat gaggaagctt agtattaaga gactccttga 300  
aatctttctt tgagcctcat cttcatcctg ataatggtga atcactcana ggaacanana 360  
ctgaanttga tgagaaagtg aaaganaatc ttggggaatt gttgaga 407

<210> 6296  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-007-Q1-E1-A3  
  
<400> 6296

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cagaaatggt cttgctcctg ctgcacctta tgtgaagaaa gactatctct ttgcacaaga 180  
aactgctgac aacattgcgg ctcttctttc tcctcaatca gggttctatt atgatatgtg 240  
ggttgatgga gagcagttca tgactgctga acctccagag gtagtgaagg ctcgaaatga 300  
taactcccat ggaactaact ttgtcgactc tcctgagccc atctatggca cccagttctt 360  
gcctagaaag ttcaaggctg ctgtaactgt tcctacagat aattccgtcg aactcctcac 420



aatgacatgg cgttggtggt gttcagatga aaatggggaa acacagggtt caatat 476

<210> 6297  
<211> 564  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 6297

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attcaaaggg ccgaattatt anaannaaaa atngggaaga agcaaaangg ggaagtttgg 180  
gacaagttgg gctngatngc ccgttagaac tnacaaaagg gaacgaacct tgccgacaaa 240  
attccaaaaa accgggtggg tttggattca actggccggc tctcaattct tggggattag 300  
aaagtttgtg ggagagggtt atcaacaaa tgggaatagc agtgaatttg ggtaacatat 360  
ttgatgggag acaatgcac tccaagttc aacctctgcc aacattgtca ctgatttcat 420  
gggcacttcc ttctctctat gcttgctcgg tggttttctc gctgactcct tctcggggcc 480  
gtttcaaaac catcggcatt ttctcaacca ttcaagctct gggaactggt gctctaacgg 540  
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<211> 491  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-D1  
  
<400> 6298

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agcaactggc gggtcacaag aatacgaccg gtaaaactcc gtccatggag atgataccgg 180  
cgacgggact tgcgatgtca tcggacgaaa gcatgatgct gaagctgatt caacaaactc 240  
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tcgatcgtgc cactcttgac tctgaagaca ccaacgcctc catgcttccg ttgccactg 360  
aggataaact gatgcagtca agcatgatga gcgttcttga tagtgtctcc tatgctatcg 420  
attgtgttgc ctgcgagata gcctataagt ctctgacggg atntgattca cacnaaatca 480  
caatgtcgtg t 491

<210> 6299  
<211> 193  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-D12  
<400> 6299

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caaccatttc tatagagaat ccaccccatg gttttaaacc gaaccgggga agactgtacc 120  
gttaatatta atatgaaatt gatttctgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nng 193

<210> 6300  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tagccaccaa cttaccttct tttgaagtga aatatcccaa caacaaccct tttgggatgt 180  
tactacggcc gacaccgatc aagaaccaat ccttgggtct accgggtcat gtcgggtcag 240  
atgagtgtcg ggtttggacc aaagcatgtt ctgatgagat tcttaggctg acttatcagc 300  
cggataacgt tgcgtggctt aaacgcgtta ggaggacgat ccatgagaac ccggagctag 360  
cgtttgagga gtatgagact agtaggctta ttaggtcgga gctggaccgt angggtanca 420  
tgtatagata tccgttagcn anaacgggta tccgggcttg gatcggatnc ggtggacc 478

<210> 6301  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 6301

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cagagggaaag agacgaatca acacttggtg caaggcaatt atcctcatct gcttccttac 180
ctttgaagga ggatcaagca agaatgtatc aaatgtcagg tgggtgttctg aagaggaaag 240
aaccggaagg aggatgggat ggatataggc agtcctcatg gcaataacag tagctcagaa 300
tctcagtagg ccacatgagc ttttactaag agatgagagt gaatgtgatg ccacaaggct 360
tcattggctg gcttgccttg tacaaatgaa gcatgggtga gtcaatttgc aatttcacag 420
tggnccaa at cttttaagaa cacaaacctg actcttgggt tc 462
  
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<210> 6302  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-E2  
  
 <400> 6302

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cgattcatcg tctcttctct gctctgcttt gctctagatc acaaattaaa agacttcatt 120
agtcttctctg tctccaccat taccttcttc ctttttaact cagccacgac gagcagacta 180
ttgttctgtt ttccttgat aaaaatggcg tcgatgatgt ttaccgattg ctccctccacc 240
acgacgtcgc gtctcatcca tttgaaccga agcagcggtg ctttcctcct ccgtcaatgc 300
gtcggccaac tccgtttaca gaccactgct tctggccgtg gctgctgcat tcgctcctct 360
tcttctccca tttcttccat ttccgctgat acaaaatcag aggggtggcg aattgtaata 420
gatggaaagg ctgtggaaaa aaggattagg gataaatcnc aantgaattt cnagaatgaa 480
  
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ggatcaattg g

491

<210> 6303  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-E4  
  
<400> 6303

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ctgttgcgct ccaattcagc cgattatgcg ttcgaccgga tactttcgtg cgggagaatc 180  
atctctctgg atccggatct ctccgccgcc ggaaagcttt atcagtcggtg tgctcgtctg 240  
gcgatgagaa cgctccttcg ccatcggtgg tgatggactc cgatttcgac gccaaaggtgt 300  
tccgtaagaa cttgacgaga agcgataatt acaatcgtaa aggggttcggt cataaggagg 360  
agacactcaa gctcatgaat cgagagtaca ccagtgatat attggagaca ctgaaacaat 420  
tggttaaact taatcctggg ggaaaatntt acgtgaaaa 459

<210> 6304  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-E7  
  
<400> 6304

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caatnacanc cacacactcc tacaccggag accaaaggct tctanatgca tcacacangg 120  
acctaaggcg tgcaanagcc gcagcactga acatagtgcc taccagcaca ggagcagcca 180  
aggcgggtgc attagtgttg ccgcagctga agggtaaact taacggcatt gcactccgtg 240  
tgccaacacc aaacgtctca gtgggttgacc ttgttataaa cgttgagaag aanngtttga 300  
cancagagga tgtgaacgag gcctttanaa aagccgctaa tggaccgatg aaangcattt 360  
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450

<210> 6305  
<211> 479  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-E8  
  
<400> 6305

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tctttctcac ttcaatttag cgatggctgc aactgcaatc tcttctcttt ccttcccagc 180  
tttgggtcaa tcggacaaga tctccaattt cgcattctct cgtctctctg cctccgcaat 240  
tcgcatctgc acaaagtttt ctgcctttc tttgaattcg cgttccactt cgaaatctct 300  
tattcactgc atgtccaatg ttaccgccga tgtgcctcct gtatcagaga caaagtcgaa 360  
attcctaaaa gcttacaagc gacccatccc gagtatctac aacacggttt tgcaggagct 420  
cattgtcaag cagcatttga naaggnanag nagacttaac ggtaagatcc ggttttgcc 479

<210> 6306  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-E9  
  
<400> 6306

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tttctaactt tgattctcta acaggtgttt tctttggaga tcttgagttt ggacctcaga 180  
atcaaagata tataaagatg aatgaggaag aagataaaga tcaagatcga gtaacgagag 240  
gatgtagtca cactcatagc tgtaaccctc caggcccaga ggatgcttct cactcccaca 300  
catgcttcca cgtcacact catctcatca tctctgatca gcaagagaat gatcattctg 360  
acagtagcaa caagaaacgg ttatgtggta atagagagggc agtgaggaag tacagggaga 420

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439

<210> 6307  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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tctctccacc ccttcgagat ttggtgcat gatgttgcgt gctgttttta ggagagcttc 180  
cattagaggc tcttcttctg cttcgggatt gggaaaatca ttgcaatcct ctctgtgttc 240  
agtgtctgct caatttcatt ctgtttcagc aacagagacg ttggtgcctc gtggaaacca 300  
tgctcatagc ttccatcanc gttcttgtcc anggtgtcca nactgttcaa ggactattat 360  
caacggttac caaggnacag ccttgcaaag atgggtcaag ggccttttca actgataatg 420  
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<210> 6308  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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aggcgtcgcg ggtgatgagt caggctgctc gactcaatga agtggtcaca gaggtaagaa 180  
gggtccctgt gatccgccct gctctaccat cgctggcgc atggccggtt ttgagcctta 240  
gatgagaagc cgttttctac aatacctaga cacagtggag aatcaatcat acaatgtcca 300  
tcactttatg taccgtaaga atacaaatac atgtgtttat gtcgtacctt tgcataanta 360  
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<210> 6309  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-F2

<400> 6309

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aagttacctt gcgtcgggtct angaacctac gcaatgggtcg cgacagcgat cgaacaggcg   180
attaagattg gttacaggca tatcgactgt gtttcgattt acggaaaacga naaagagatt   240
ggtggtgtgt tgaagaagct gataggtgat ggttttgtga agcgtgagga gttatttatc   300
acttccaaac tctggagcaa tgatcattta cctgaagatg tgcctaaggc actggaaaaa   360
acgttacagg acttacagat tgactatggt gatttatatc tgatacattg gncctgcgagc   420
ttgaagaagg aatcactaat gccaaaactg anaatgtcaa aaaaaccng tataactagc   480
acatgggaan ca                                                              492
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<210> 6310  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-F3

<400> 6310

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tacagatcaa cggctcaaac cgtttgaaca tctcangagt ctcggttggg tctcagagaa   180
cgggacttgt gatcagggt cagcagaacg tgtcattacc atanagtagt cnccggtcan   240
tgattggnct cntggcggct ggttnagccg gtggttcatt cgttaaagct gttttcgccg   300
aagctattcc gatcaangtt ggtggtcctc cacttccttc cgggtggcta cctgnaacag   360
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ataactcaga ccaancanga gacttttcat tggcantgaa agatagattt tacatacaac 420  
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<210> 6311  
 <211> 506  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-F4  
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 ccggcttctt cattcggctg atcgattcga tgtattcatc agtatcagac gatccaggcg 180  
 attccacgtg aagctacggg tcgaggagta tcggctcggg atcggacgat tggctgtatt 240  
 cccgccgtcg ttttcccgca atcgcttcta gatactgatg cttcgaagcg aggcgtgtcg 300  
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 ctccaatcc tctgttccaa cactttccaa gtttcaagat tccgaacctg gtcaanggtt 420  
 ccntcaacct cttgttgaaa ccngggtcca aataactttc ccctcaaagg gttcaatana 480  
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<210> 6312  
 <211> 475  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 aagaagagca aatgtgtcgt cacgtacgag agttttacac acgtgcngtg gaaatggtag 180  
 tagcgacgga gggaagacgg tgatggagaa gtttcttgcg ttaaagagcc ttcttctctc 240  
 accggtgaat gtcggtggtg gaganacgga ggagctgttt caagagacgg cggagtatat 300



cgtgaagctt agaacacaag tcgtggtggt gaagaaactg attgagattt acgataactc 360  
 ttctgatcag aaganagatg ttgttttana atgtncattt atactttctt taattcanat 420  
 tatgtcaggt ttctgnttt ttttggmann aacttataat taatatnttg tgate 475

<210> 6313  
 <211> 489  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 actcgtcgca acttcatcag ttttctctac aaagaattcg ttcgaaggaa aattcgaact 180  
 ttcaaagacg acaaggagct tgagaatggc cgaggagattt ctccggagct caaacgcgcc 240  
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 tgtctcgatg agcttgtgaa gattatggat ttcgaaaaca agggttccat caccgtgatg 360  
 cctatcttct acggtgtgga tccgtgtcat ttgaggaagc agatcggaga tgtcgctgaa 420  
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 cattgacca 489

<210> 6314  
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 tttgggagaa tatggcacag ctgatgggaa atattctgcc tcctatatta gtggaaagct 180  
 gtgcgatgtg gcagatgcat actcaagtga tgaaactgta aagggttatg ctgtttctgc 240

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 gtgccaatct ttgattgaag agctattggc ttcacattca acagatcttc agcaacgtgc 360  
 atatgagctt caggctctcc ttgctctaga tgcccgtgct gttgagacta tactcccttt 420  
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<210> 6315  
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 gttttgacga cgatgatgtg gatatacggc tccgagatga aaatgcccag gacgggaaac 180  
 ggttgcacgc taaaacattg gaagtaagat ctcatatttc gtaccgctat cgacattctc 240  
 taagggctta catttccatg ttatatctca aaaagttcaa aaacttcaaa attattcttc 300  
 ggggagtctc tgtggcgcaa ttcaacattg ctgatgaatt cagacatcct gagacaataa 360  
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<210> 6316  
 <211> 437  
 <212> DNA  
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 <223> Clone ID: LIB23-005-Q1-E1-A11  
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 tcctaaaggg cactgttttag ttgcattacc gtttttgatg aagagaacta aagttattga 180

gattgttgct gcaagggaca ttgtttttgc gcttgacat tctgggtgtt gcgcagcttt 240  
tagtagagag tcgaacaaaa gaatatgctt tttaaagtgt agtccagatg aagtcacag 300  
gagcttgctt tacaacaaga acaatgattc tctcatcaca gtttctgttt atgcttcaga 360  
caatttcagc tctttgaaat gcaagatcca ctagaattga gtatattctg agaggtcagc 420  
cggatgcagg gtttgct 437

<210> 6317  
<211> 404  
<212> DNA  
<213> Arabidopsis thaliana  
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atcttcctag ggtttcgatc tgaaaccttg cgatctactt gaaagagaga ttcagaaatt 180  
tccaagtaat aataatgttt gcgcctgcna ctcaaccgca acagcaacat gagcagaaga 240  
agcattcaga gacngtttca tcngctgaag aagatgcttt gaagtggaac accgattgcg 300  
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<210> 6318  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-005-Q1-E1-A2  
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ctttcttctg atttatcatc ttctgcaggc atggaaaagg ttgtggtacg aagatggagt 180  
ggtgctagtg acatgagcat cgatttggga aatgacagga aggatgatac gggatgatag 240

ccactgtgca ctccctcgtc atcttcagtg tccaaagatg gaagtgggtgc atcctcaaaa 300  
 caatttgtcg gctacaataa naaagancag aatggattga gccatgctgc gaatcctcat 360  
 aggaatgagg aagaatgtac ttccaacaat ggtgggtgact ggggaatgga tgaagtanag 420  
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<210> 6319  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-A3  
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 ttcactgtct cttctccatg tgcgtctcct cctcctccgt ttcttcagat cttgctttcc 180  
 ggtgacgggt ttaatcttct tctctctggt aacacgtata aagcatggct tacctgatgt 240  
 agacatgtag tgttaggcta aagactcctc ttttcacttc tgtcttggtg agtttgtgtt 300  
 ggtttaaggc ttttaagcaa aggcgttggt ggtctgacaa gatggcaatg gcggtgttta 360  
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 atctgcttaa caacagtcta cangg 445

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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 tantggaact cangaccttg atacattgca cggtcctttc acatacgagg ctttgccgcc 120  
 aacggatata aattttgtac ctttgaagca aacanagagc ttcagggtg acnaacttan 180  
 tgaattctac aagtctgata tnaanctgaa aaagtttcta cacataatcg agaattcacc 240

cgtcttccct gttttatacg acagtaagag aactgtgctg tcattgccac ctattatcan 300  
 tgggtgcacat tcagcantta ccttacagac aaagaatgtc ttcattgaat gtactgcaac 360  
 tgatttgacg aaggccaaga ttgttttgaa tacaatgggtt acaaccttct caaaattttg 420  
 tgccagaaaa tttgagatgg ancngttgaa attacatacg acgaaggga antcctacat 480

<210> 6321  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-A6  
 <400> 6321

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 gccgctaatt aacgccgtct ctggttgcta ccaccgccgt aaccctaacg gcatttttaa 120  
 tggcgctcgtg tgatgacgat ttctctctac ttggagacga tcagtcaaac cctaataaac 180  
 atcaccacca ccaccaagtt cttcatcaca cgccttacgc tcctagacga ttcaaccgga 240  
 aaccatcgaa tcagatcctt ttaccgcac accagaggaa cggcgacgag gacgacgaga 300  
 acgatgtcgt tgtagaagcg tcttctgctt tccacgggtc cgggtgtaat cttttcacg 360  
 cggacgaaaa ttcgaatccg tatgatgata ataacgcagc tgtagacgaa ggacgaagac 420  
 gaagatctcg gtgccaacan 440

<210> 6322  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-A7  
 <400> 6322

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 atangaaagt ggtaacata gatgatccaa acgcagcatt ctttgtccag caagggaatc 120  
 ctaatgttcc tgttgagaca ttgcatgg aaaacaccaa agccgatgtt caccggttaa 180  
 agtttgagct ttccttggtt gagacacagg ttttggttaa taccctcaa ggtatactgg 240

agatctcttc gggtttgta ggacggcata acatttataa tattcttgct gctgtggctg 300  
 ttgggattgc tgttgganct cctcttgagg atattgttag aggtgttgag gaagtcgatg 360  
 cagtcccagg aangtgtgag ttgattgatg aggaacaagc tttgggtgtt attgtggatc 420  
 atgcaaaaca cacctgnatg gcttgncaac ggctgccaaa atccaat 467

<210> 6323  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-B5  
 <400> 6323

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 agctcttcgc ttcagcgtca ctactaacc taggattgta tcatctcatc tgcactttct 120  
 tccatctcct taaatctccc caatcctacg ccgcgaaacc cttttaccct tttccacgtc 180  
 tctcctccgt caccggaac aaccaccaca atcacaancg cctccaaaat ctaccactgt 240  
 tcatectcat actctctcta ttcgtcgctt tccttcacga aaccctaata tccttctact 300  
 ccgatectct cgtcaaagga agtactcctg ttcaccgatt ctcatctctc aattccgcgc 360  
 ccgtgttctt cctcttcctc atcatcgcca tttaaatct cctctccgga ttaantcccg 420  
 ttaatecntc tcccttcgga 440

<210> 6324  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-C1  
 <400> 6324

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 cgctctcatc ccagggcgag aaagatggtg aaacggagta aaaagagtaa gagtaagagg 120  
 gtgacctga agcagaagca taaggctctg aaaaagggtg aggagcacca caagaagaag 180  
 gcaaaggatg ctaaaaagct tggccttcac cgtaagccaa gagtagagaa agaccaggt 240

ataccaatg actggccttt caaggaacaa gagcttaaag ccttgaagt tcgacgtgcc 300  
 cgtgctcttg aggagattga acagaagaaa gaagctcgca aagaaagggc caaaaagagg 360  
 aaacttggtt tggttgatga tgaggatacc aagacagaag gagagaccat agaggactta 420  
 cctaaagttt caatgttcca anataactcc ggaaaaggct tctaaaaggn gcctanttaa 480  
 aatccattga 490

<210> 6325  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-C4

<400> 6325

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 gcagaagcag aagtcgaagt agaagtcgta gtcgggatcg gtttcgtagt cggagtccga 180  
 gagacaggag aatgagatct gaacgagttt cttaccatga tgctccttct agaagggaga 240  
 gggagccacg tcgtgccttc agccaaggaa atctctgcaa caactgcaag cgacctggtc 300  
 actttgcaag agactgttct aatgtttccg tctgtaacaa ctgtggtctt ccagggcaca 360  
 ttgcagcaga atgcactgcg gaatcacgtt gttggaactg tagagaaccg ggccacgtag 420  
 cctcaaactg ttcaaacgaa ggaatctgcc actcctgtgg taaatctgga catcgagcca 480  
 naaactgctc tt 492

<210> 6326  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-005-Q1-E1-C5

<400> 6326

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 ccggattttg caccaacgaa aacttcttta aactactttc ttcattattc ttctgctgag 120

tttcaaaaac tcagccatgg gtaattgtat cgcctgcgtc aagtttgacc cagacaactc 180  
 aaaaccaaac cagaagaaga aacctccacg gggacggcaa cgaaacccat acgacgatcc 240  
 cgatggttta agaactcacg caccgttacg tgtgattcct atgagccatc aatctcagat 300  
 cagcgacaag tacatcttag gacgagaact cggtcgcggc gaattcggaa tcacgtatct 360  
 ttgtacagat agagagactc gtgaagcttt agcttgcaaa tcatcnccag gaaaagctcg 420  
 gaacggccgt tcaagttgaa aaagt 445

<210> 6327  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-H12  
 <400> 6327

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 gcaaaacagg ccaaagatgg aactaatgtc cctaaaaaga gcgcaaagaa gagttccaaa 180  
 cgggatgcgt cagaagagaa tcctgaggat tttgtggacc ctgaaactcc tcttggagag 240  
 aggaaaaggc tttcttcaca gatggccaaa caatacagcc ctgctaccgt ggagaaatca 300  
 tggtatgctt ggtgggagaa atctgacctt ttaaggcgg atgctaagag ttccaagcca 360  
 ccttttgtaa ttgttcttcc tcctccaaat gtgactggag ccttgcatat ggncatgcg 419

<210> 6328  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-D8  
 <400> 6328

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 cattacaagg aagaggttct gaatccaaac aagaaggacc tcacggaact tccgagaaac 180



gtaccgagtg ttcctgcagg gcttttcttt tcttacaact ctacattggg tctccttac 240  
 cgtgttttgg tggatactaa cttcatcaac ttctctatcc agaataagat cgatcttgag 300  
 aagggaaatga gagactgtct gtacgcaaat tgcactcctt gtatcacgga ntgtgtcatg 360  
 gctgagttag agaagttagg tcagaagtat cgtgtagctc taaggattgc gaagattctc 420  
 acttcganag actaccttgt 440

<210> 6329  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-E2

<400> 6329

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 cagcctccat atatgagtta tccgtcttac tacaatgctg ttccccctcc aacacctect 180  
 gcaccggcct cgtctactga tcattcccaa aacatgggta acatgccatg ggccaacaat 240  
 cttctgtct caacacctga tcaactcaca ggtcttgta atgcacctg ggcacctaat 300  
 cctctatgc caccactgt tggctattca cagagcatgg ggaacgtacc ctgggctccc 360  
 aaacctccag tacagcctcc tgcagagaat ccacctctg ttggagagtc tgagtatgag 420  
 aagttcatgg ctgagatgaa gtagcatgcg tgttctgatg agaaactcct tagtggagan 480  
 gtgtgat 487

<210> 6330  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-E3

<400> 6330

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 cgtccgggtcc accgacaagg actacaaaga gccacctcct gcgccactgt tcgagcccgg 120

cgagctcagc tcatggtctt tctacagagc cggaatagct gagtttatcg ctactttctt 180  
 gtttctctac atcaactgttt tgactgtaat gggagttaag agagcaccaa acatgtgtgc 240  
 ttctgttgga atccaaggta tcgcttgggc ttttgggtggc atgatctttg ctcttgtcta 300  
 ctgtactgct ggaatttcag gtggacacat caaccctgct gtaacattcg gtctgttctt 360  
 ggctcgggaag ttatctctga ccaagagcag tgttctacat gattatgcaa tgtcttggag 420  
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 gtg 483

<210> 6331  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-F11  
 <400> 6331

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 cttgccggcg tccatggaag atttcggccg tcaacgacca tacggagacg gagggatgca 120  
 gatccagcct taccacggta atcaaggcgg tgatttcagg agctatagcg catcgtangg 180  
 gacgagggag aacaatatat acgatgtgaa aaaggagaaa tcgatagcaa gatccaagtc 240  
 ttggggaata acggatccgg agctccagag gaagaaacgg gtcgcgagtt ataagatgta 300  
 tgggtgtgaa ggcaaagtca aaggctcttt tagaaccagt ttcaagatgg ctttaagcaga 360  
 agtacacaca ggtcgtctat ggttgggtgg gattcctttt tcatcttttc tanaatt 417

<210> 6332  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-F4  
 <400> 6332

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aaaccctagc tcatcatctt ctactaacia tctctatcct tctctcgata tgaatgatct 180  
 cgctcgtaat ctcttccctg aacaaccaga gacgagttct attccgggtt cagctcctcc 240  
 cgctgcgacg gaggaagtaa ttttgaaaat ctccggcgcg attcttcatt taatcgacaa 300  
 atcttacagc gtcgagctcg cttgcggtga tcttgagatc atccgtattg ttcaaggaga 360  
 gaatgttgtc gctgttctcg ctagtgtctc cgatgagatt caatggccgt tgactaagga 420  
 tgagaactct gtcaaggctg atgagtctca atacttcttc acgcttcgtc ctaccaanag 480  
 agattcacat gatt 494

<210> 6333  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-F7

<400> 6333

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 gcaaactcgc catgaaatgg catcctgata agaaccctaa caacaaaaaa gaagccgaag 180  
 ctaaattcaa gcagatctct gaagcttacg atgttttgag tgatcctcag aaacgagcaa 240  
 tctacgagca atacggagaa gaaggtttta accaagcccc acctcccggc gccggtggtg 300  
 gctatcctgg aggatcagac gccggagctt ctttccggtt caatcccaga agcgtgatg 360  
 atatcttctc cgagttcttt ggtttcacga ggccttcttt tgggtacggga agcgactcac 420  
 gcgcaggacc ttctggcttt aggtat 446

<210> 6334  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-G12

<400> 6334

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aaggtggact tggatttgat tattatgtga atctttctgc gtcagaaatg tgggtttctc 120  
tcctcgacaa tgtaccggat aatgaatgga gcatgagcaa gattgtcagt acattggtgg 180  
ctaacaaaga gtatgcagac aagatgctca gctatgccga aaatcacaac caatccatat 240  
caggagggcg ttcatttgct gaaatcttat tcggtggagt cgataatggg tctcctggag 300  
gaaaagaatt gctagacagg ggaatttcac tacataagat gattagactg attactttta 360  
caagtgggtg ccgtgcatac ctcantttca tgggaaatga anttggacnt ccngagaggg 420  
ttgagtttcc aacgcagan 439

<210> 6335  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-G2  
<400> 6335

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ctaaccggtt gataccagtc gatgccatct ccatttgcag gaatatagaa ggggtggactg 180  
ccatgatttc gatcgggttt aacgctgcga ttagtgtgag agtatcgaat gagctgggtg 240  
caggaaacgc agcgtagacc aaattctcag tgatagtcgt ctccataact tcaactctta 300  
tcgggatagt gtgcatgatt gttgtcttag ccacaaaaga cagcttcctt tatcttttca 360  
cttcaagcga agctgtggca gcagaaacca cgagaataac cgtcttggtg ggcttctactg 420  
tcctcttgaa cagcctccag cccgtcttgt caggggggtg cggttggagc cgggtggcan 480  
gctctggttg catacgtg 498

<210> 6336  
<211> 445  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-004-Q1-E1-G5  
<400> 6336

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 gcaaacctga tctttcagta cttagaaagc tatgctggga aaagtttaat tggaacggca 180  
 agaaaacaga tgaactacta ctaccagtct tgaaggagta tgaaaagcgc gagacgcaac 240  
 ttcggattga agctttctat tcctttaatg aaagatttgc aaagatccgt agtaaaagaa 300  
 tcaacaaagc tgtcaaagga attggtggag gtctgtcgtc agatgtggcc gatcatactc 360  
 tccaggaagg tccaagaang acgaaataag anaaaagttg ctctcatga aactgaagat 420  
 acaacacttc agacagagat cacct 445

<210> 6337  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB23-004-Q1-E1-G6  
 <400> 6337

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 ggctccgatt tacctccacc accgtctcct tggggatttc tcttcccga ggattttgta 180  
 agaatcgacg ggaatctcaa agctattttc caactctaga agctttcttc agtaaatcac 240  
 atctaactct tcatcatcta caataacagc tttgagagtt ggaaaatagc gggaaaatta 300  
 gaaaaaacc taaacctaga agaagaggag acaaatccgg tgacggattt agaagaactg 360  
 gagcagatca agacgataac gatgatggtg atgatgaagt aggagatgaa tctatcgaag 420  
 aagcgtttcg t 431

<210> 6338  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-G8  
 <400> 6338

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gcggaacgtg gtgtcgaacg tgggtggagat cgcggcgatt tcggacgtgg attcgggtggt 120  
 cgcgggcgggtg gaagaggtgg tccgagaggt cgtggtcgcc gtgcaggtcg tgctccagag 180  
 gaggagaaat ggggtgccagt gactaagctt ggtcgtctcg taaaggaagg taagatcaca 240  
 aagattgagc agatctacct ccattctctc ccagtcaagg agtaccagat catagattta 300  
 ctcgtegggtc cttcattgaa agacgaagtg atgaaaatca tgccgggttca aaaacaaacc 360  
 aganccgggtc agagaacgag attcaaggcc ttcacgtcg tcggagatag taacggtcac 420  
 gtcggattag gagtcaatgc tccaanga 448

<210> 6339  
 <211> 442  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-G9  
 <400> 6339

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 aaacattaat acacacacca aaaaaaaacc tgtttatgtc caaaagatct ctgattcctc 120  
 aattcttctt cnatagcttt tgggtctccat tctcatctct taatctccag tgagatcagc 180  
 tccaattcta actggtctct ctaaataaaa aacagaaata aaaatccaac ctttttcaat 240  
 tttcgttcaa ttttcccga aaaaaaagcg atccttttga tttttcgatt tctccaagta 300  
 acaattcaaa atgggtctaa aggggttttgc tgaaggagga atancttcga ttgttgctggg 360  
 ttgttcgacc aaccgcttga tnnaacaagg nccgaatgca acttcaaggc gaatcagctc 420  
 cgattcaaac aatctccgaa ca 442

<210> 6340  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-H10  
 <400> 6340

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ttcttaatga gccttctcta ggggaatgga cttccagagc tgaattatgt gacaatttac 120  
 atgtgccggt gagaatcgct gttgtgggga aatatacagg cctctctgat gcttatctct 180  
 ctgtcttaaa ggctctctta catgcttctg tggcttgtcg caaaaagctc gtagttgatt 240  
 gggttccagc ttgtgatctc gaaaaagaaa ctgagaaaga gaatccagat gcgtataaag 300  
 ctgcttgga gttgctaaag ggtgtagatg gaattcttgt acctggaggt tttgggtgat 360  
 agangagtgg aagggaagat tcttgctgca aagtatgcac gttaaaacaa aatcccgttc 420  
 tccggttaatt g 431

<210> 6341  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-H11  
 <400> 6341

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 ttgaaaattc tgacgaataa aaaccatata taccaatcac aaaccctaga tttttgttat 180  
 cttcttcata cgaagattct ctttgatctg tgtctccttc cttctgattc tcccatttca 240  
 tttcattgat tcttttgatt cgattctatt cgagctcaat tttgtagatc agaaccaga 300  
 atcgaatttg ggataacttg aacaatatcc ttggtaactt gttgatctga atttgagtga 360  
 agaagacatc gaattcaagt ttggtgtggg agattttttt taatggagtg atgatgattt 420  
 aaaggggaag gtaaggaac gatgactgga ttgggtgttc catcaagtac caangttcct 480  
 gga 483

<210> 6342  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-004-Q1-E1-D7  
 <400> 6342

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gagacttcag atctggttgt ggaaatgtca gatctgggat ctactcgtcg gattggacca 180  
gatccgggtt tgattccggg tcagatccgt ttatctggcc gcaaactgaa atcagcaccg 240  
ttttacgccg gtctgtgac catgacctcg ccgcctccta gcgatgtccc gcttccagct 300  
ttcttcacga agaaggcaac anatgatcnc atcatcgatc cttcgcctag acatcgcttg 360  
acgggtgtctg tcaccgatca tttntgattt ttttaannatc tccgangatc caaatggtta 420  
ccanagttg 429

<210> 6343  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-G5  
<400> 6343

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ctaaggactt ccgtgaccca acgactgcat ggaagacatc agaaggaaaa tggcggatca 120  
cgattggttc caagctcaac aaaactggaa tctcactcgt gtacgacaca atcgacttta 180  
aaacatacga gaaacttgac acattgttgc accgagttcc caaactgga atgtgggagt 240  
gtgttgactt ttacccggtg tctaagactg cgggcaatgg gcttgacaca tcggtcaatg 300  
gaccggatgt gaagcatatc gtgaaggcta acatggacga cacgaggttc gatnattatg 360  
ctgtanggca cgtatttcga ttcaaacgga acatggnttc ccgatgatcc aactatcgan 420  
gttgggaatn actgccaant ttaagatatg attacgg 457

<210> 6344  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-G7  
<400> 6344



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ctaagaccaa ccgatcatct tgaccggctt ttctacactc aacaagctgc ttggacgtga 120  
ggtctatagc tctcacatgc aacttgggtg cccaaaaatc atggggacaa atggtgttgt 180  
tcatcttaca gtctcagatg atctcgaagg tgtatcagca attctcaact ggctgagcta 240  
cattcctgcy tatgtgggtg gtctctcttc tgttcttgc ccttttagatc caccggagag 300  
aactgtggag tatatcccaa gagaactctt gtgaccacg agctgctata gctgggatta 360  
acgataatac tggtaaattg cttgggtgggt aaccttgata aaaatancct tgttgagact 420  
cctgaaagct ggggcaaagg acngtagtga ctggtaa 457

<210> 6345  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-G9

<400> 6345

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agggttttct ctagcttaat ctcagattcg aatcgttcca tagtgatact atgccgaaga 120  
acaagggaaa gggaggaaag aacaggaaga gaggaagaa cgaagcagat gacgagaaga 180  
gagagcttat attcaaagaa gatggacaag aatacgaca agtccttcgt atgcttggaa 240  
atggaagatg tgaagctatg tgtatcgatg gaaccaagcg tctttgccat atccgtggta 300  
agatgcataa gaaggtttgg attgcagcag gtgatattgt gcttgtttgt ttgagggatt 360  
accangatga caaagcggat gtgaccta agtncatgtc tgatgangnt aaggctenta 420  
aaggctaagg tgaacctcca 440

<210> 6346  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-H10

<400> 6346

cccggaaaacn gaatcgcggg tgcaccacg cgtccgcaca gagctgacgt tagcatttgt 60  
 ctctgaaatc ccagatccga aaacccaaca atggcgtcag agaacaacgg atccagatcc 120  
 gattccgaat ccatcacgcg tcccaaagct gattccacgg tcgttgaacc gaggaagata 180  
 gctctgatca ccggaatcac cggccaggac ggatcatacc tgacggagtt ccttctcgga 240  
 aaaggctacg aagttcatgg tctgatccgt cgatcatcga atttcaacac ccagcgaatc 300  
 aaccatatct acatcgatnc acacaatgtc aacaaagctc tgatgaaact ccactacgcc 360  
 gatctcaccg acgcttcttc tctcgcgtcgt tggatcgatg tgattaaacc ctgacgaagt 420  
 ttataacctt nctgctcaat ctcacgtcgc tgtctccctc gaagattcct gga 473

<210> 6347  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-H11  
  
 <400> 6347

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 accgtagccg gcgttttagt cgcaaacgcg agtctctatg gcatagcaaa cggcaccgcc 120  
 cgcggcgcgg ttccgtcggc gaggttagcg atgtacaagg tttgttgggc gagatccggc 180  
 tgtgctgaca tggacatact cgccggattc gaagcagcga ttcacgacgg cgtagaaatt 240  
 atctccatct ctatcggcgg tccaatcgcc gattactctt ccgattcgat atccgtcggg 300  
 tcgtttcacg cgatgaggaa aggaatcctc acggtggcgt ccgcgggtaa cgacgggcct 360  
 aactcaagaa ctgtaacgaa ccatgaaccg tggataatga cggttgctgc aantgggaac 420  
 cattgggacg ttcaaaaa 438

<210> 6348  
 <211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-H12  
  
 <400> 6348

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gagtataaat gacacaagct atttcgtatc acgctttagt gaaagcagtt gcagcgatac 120  
tgaaactggg aacaacagtg ggtcaaacc agattcagga gacgagttgg atgaatgcac 180  
caacctggag aagtttgatt ctccgcctta ttatctctcg ctcattaact tttctttcaa 240  
gaatttgta caattggctt caatcaatca tgatgtgcta ttgcaaaagg atccagctaa 300  
aggaggagga gactcaccct ttaaaagcca tggaacgtaa agctctccta caaccgtcaa 360  
angtggcctt agtccgctgt tttccctggg ttgcgccttg ctttgaccgt ttgtaactgc 420  
tgctgccaac taatgcctga aaattgtaac tc 452

<210> 6349  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-H2  
<400> 6349

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tgtccgccgt ggtaaaatcg tggcaggcaa ttcccgggaa atggactttg acagtttcct 120  
cgattttggt cttgctttgg agaacaaaga tactccagag ggtttgacgt atttattccg 180  
ttgccttgat ctccaaggga gaggctttct cactactgct gatattcact ctcttttcag 240  
agatgttcac cangaaatgg atagaagggtg ggaactatga actgtgcata gaagatgttc 300  
gagacgagat ctgggacatg gtgaaancgt ctgaccatt aaagattact cccgggggtga 360  
ttcccttggg aangttaaca aaggnggaaa ccntttccaa ncnatgctta aaaanttgcn 420  
tggntttctg ggnnnaagna aaanccttag aaaccttctt caaaaanaaa 470

<210> 6350  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-H3  
<400> 6350

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 ccctctgccg ctgtggntta cctccccggc tcaagccacc atggtcgctc cattcaactgg 120  
 gtttgaaagt catccgcttc tttcccggtc acccgcaagg ccaacaacga cattacttcc 180  
 atcacaagca atgggggaag agttagctgc atgaaggtgt ggccaccaat cggaaagaag 240  
 aagtttgaga ctctatctta cctccctgac cttactgacg tcgaattggc taaggaagtt 300  
 gactaccttc tccgcaacaa atgggattcc ttgtgttgaa ttcgagtttg gagcacggat 360  
 ttgtgtaccg tnagcacngg naacactccc nggtactaa cgatgggccc gtactggnc 420  
 atgtggnaac cttccaatgg ttccgatgc aaccgaatcc gctcaaattt ttgaaag 477

<210> 6351  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-H4  
 <400> 6351

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 gctagcttct tccggtgact ggcgataaca cgagagagcc ttgccttct ccaagcttca 180  
 tactcttccg acgataaaga ttagaagaca tgaagaacgg taaccggaaa acaacgccgg 240  
 aaacagagaa gtctcaccgg agaaagttat cagagaaagc gatgtcgttt cacggnagag 300  
 gaacaacgcc gttatcaa at ccaggcgagc ttcgaagacc gaanacgtta ccggagtatt 360  
 tctccaccgg tcaaagcatc accgttaccg gagaacggtt taacttccgg ccacgttttg 420  
 acgaaacntt tacttaacgn gacggtacaa agggaanttt aag 463

<210> 6352  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-H5  
 <400> 6352

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accaccagct tctctagctc agttcgacct ccaccacggt ggtcaccaag acttctcctc 180  
ttacggtgtc tctctcgttg acggttacaa tgttccgatg accgtgactc ctcacgaagg 240  
ccatggtgtc tgtcctgtcg ttggttgctg tgaagatcta ataaaaacgt gtccggctca 300  
tcttcangtc cggtcacaca agtggacacg tgggtggctt taagantggg tgtgaggctt 360  
tccatacaga cnagctgttg ttgtcgtggt cantanaata anccctaaca cntttaaacc 420  
tccagncaat cct 433

<210> 6353  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-H6  
<400> 6353

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atgaagctgg gaagccaagg ccttgaggta tctgcgcaag gccttggttg catgggcctc 120  
tccgctttct acggtgctcc caagccggaa aatgaagcca tcgctctcat ccaccacgct 180  
attcactccg gcgttaactc ccttgacacc tccgatatct acggccctga gaccaatgaa 240  
gttctcctcg gaaaggctct caaggatggg gtgagagaaa aagtggaaact tgcgacaaaa 300  
tttggnatca gttatgcana aggggaaaaa acaaggtcat aggagatctg aatatntaag 360  
ggcgnctttg tnaaggcaaa ntttaaanag ggtagtttat tgccnggntt centttccaa 420  
taacaagaan cggtcaaaa 439

<210> 6354  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-H8  
<400> 6354

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 ctcttatcct tttaccctca tcatectcca ctatttacag ttttgccact ctgactttat 120  
 gctagcttct tccggtgact ggcgataaca cgagagagcc ttcgccttct ccaagcttca 180  
 tactcttccg acgataaaga ttagaagaca tgaagaacgg taaccggaaa acaacgccgg 240  
 aaacagagaa gtctcacccg agaaagttat cagagaaagc gatgtcgttt cacggnagag 300  
 gaacaacgcc gttatcaa at ccaggcgagc ttcgaagacc gaanacgtta ccggagtatt 360  
 tctccaccgg tcaaagcatc accgttaccg gagaacgggt taacttccgg ccacgttttg 420  
 acgaaacntt tacttaacgn gacggtacaa agggaanttt aag 463

<210> 6355  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-H9  
 <400> 6355

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 ttgatcagaa aaaatccacc aaatttctca agatcgaaac atataattga agatgagcga 120  
 cgtatttgaa gggtagagc gtcaatactg cgagctctca accaatctct ctagaaaatg 180  
 tcaacttgca tcggttctct ccaacggaga ggagaagaag gggaagattg ctgagatcaa 240  
 gtctggaata gacgaagctg atgtcttgat ccggaanaat gatcttgagg caagaagttt 300  
 gcagccgagt gctaaagctg tgtgtctttc taaactaaga gagtataaat ccgatctgaa 360  
 ccaattgaag aaggaattca aacgaatctc ttccgcaa at gctaaaccgt cctccccgtg 420  
 aaaganttta tgggaaccgg g 441

<210> 6356  
 <211> 508  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-G4  
 <400> 6356

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 ttctttcttc tctttctcac ttacttaacc cataagccat caatcccaaa cacaccatta 120  
 caatggnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnng accaatcacc aaaagaccct tacctctctc 240  
 tccgtcgtct cgetgaatcc tcaatcgcta gagctcataa actcaaacac ggcacctcaa 300  
 taaaacccga cgaagatgct ctctctcca ccaccaccgc atccgccacc gtcgtgaaat 360  
 ctctctctc tgctaaaagc tacgggcgga tactcaagtc tctctnagct ttnggaaaac 420  
 gtcgcaaaca atcccaattc gttttcgaaa acnggaaaca attcccgttt nggggaacct 480  
 tggtnccctca aagatatctc cgntccg 508

<210> 6357  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-E10

<400> 6357

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 tgagttcata agattccggt atcgtcttcc tgattcctcc aaatctccgg cgaatttgca 180  
 ctctttacct ctctttgact ccgtgagatt cgaggattgt tagtttcttg tgatgtgtag 240  
 tctttgaagc aggggatttt tattgtattg aggaagaaga tgggggtttga gccgttgat 300  
 tgggtattgca agccggtgcc gaatggtgtg tggactaaaa ctgtggatta tgcgtttggt 360  
 gcatacacgc cttgtgctat tgactctttt gtgcttggtg actcccatcc ggttctgttg 420  
 attctgtgtc cttaacgctt gtggctcatc acnaaggntt acaaagtggg taagttttg 479

<210> 6358  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-E12

<400> 6358

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gcaactaata accgtccac gaacaaaacc ggcttctgtg ggctagtcgg taaacaagta 180  
gacagcattg agtattacac tgagctaatac aacgagtcgt tagccaaact ggaaacagag 240  
cagaaagcgg ttcttctga gaagcagcaa accgcagcag tggttttctt cacaaccagg 300  
gttctgtctg catcaagcag ctgagtcctt gcactgccag atgggtgata aatggactgt 360  
gacccgaagc tctgaacca cggnaagctc ctaaggcaag aatctcaaca tcaaagctcc 420  
tcaacaagaa taatccggca atact 445

<210> 6359

<211> 484

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-002-Q1-E1-E3

<400> 6359

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ctctncctc catcgggcag gaccaccgga gatcagcgtc accgtaccaa aacatcattt 120  
accttctttt agatttggtg ttttttaatac agttgaatcg gaataaaata tcgcatcaga 180  
gatgagtaac gagcttctca ccatcgatcc tgtcgacctt caattccctt ttgaattgaa 240  
gaagcagatc tcttgttctc tctatttggg taacaagacc gataattatg tcgccttcaa 300  
ggttaatttc aatttttgaa ttggatatat attcttttgt gtatatctta atgttttcaa 360  
gggtcaatta ttttttaaag gttaagacga cgaatccaaa agaagtactg cgttangcct 420  
aatactggtg ttggttcanc ccagattct cctcngaaa gttttagtga ccatgcaagc 480  
tcaa 484

<210> 6360

<211> 458

<212> DNA

<213> Arabidopsis thaliana



<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-E4

<400> 6360

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 nnnnagaaga aaatttccat tgttcgaaac aggagttaca atgaaacaga ggaagaacag 180  
 taatctctca atcttcgtcg tagtcttctc tgttttcttc ttccgggatct tcatgtacaa 240  
 tgaagacgtc aagtcctatc cagagtttcc tttctccacc tcaaaacctc acgacgtcca 300  
 cgacgaaagc gacaccgatn acaagagatn acaacactac cggttcaaga gtcgatnaag 360  
 aactcagacc caattcaggg aatcgnttaa aaacgnannn ccnagttcaa gattccantt 420  
 aaggacgttt ccaaaaccag tttcaagaag gngggggtt 458

<210> 6361  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-E5

<400> 6361

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 ctctgccgga gtttcaaaag ccaacgaaaa acgaactcta tccccgtcgt ctcacgccgt 180  
 gctaagatcc tcatgcagct ccacgcgtta ccctgagctc tgtatctctg ccgtggtaac 240  
 tgccggcggc gtcgagctaa cgtcgcaaaa agatgtcatc gaggcacggg tgaacctaac 300  
 aataaccgcc gtggagcaca attacttcac cgtgaagaag ctgatcaaga agaggaaagg 360  
 actgacgccg cgcgagaaga cggcgcntca tgactgtttg gagactattg atgaagacct 420  
 ggacgaactc caagaaacgg tgggaagatn tccaat 456

<210> 6362  
 <211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-002-Q1-E1-E7

<400> 6362

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gcggatctca tcaaaagggg gttggctgag gaagataaga ccgcagaaca tggagtacgt 180  
ctgacgatac cagactatcc atttgcaaat gatgggtctaa tattgtggga tgcaattaaa 240  
gaatgggtga cagactatgt gaaacattac taccctgatg aagaactgat cacatcggac 300  
gaggaactcc aaggatgggt gagtgaagtg cggaacatag gccacggaga caagaaagac 360  
gaaccttggg ggctgtcctt caaaacacaa gatgacttga ttggtgtggt aactacaatt 420  
gcatgggtca ctcaagggtc caatcaactt ta 452

<210> 6363

<211> 445

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-002-Q1-E1-E8

<400> 6363

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ctgcagaagc ttaaagactc actagccata gcacttggtc atttctatcc tcttgacagt 120  
cgtctctcta ctttgaaaac cgacaattca agatctcact ctgtgtttgt ggattgtaat 180  
aatagtcttg gtgctagatt tatccatgct gaatcagatc taagtgtgtc agacattctt 240  
ggatccacat atgttccttt ggttggtcaa tctctctttg atcatcaca agcattgaat 300  
cgtgatgggt acaccatgag tctcttatca atcaaggtaa cagaactggg anatggagtg 360  
ttcataggat tgtcaatgaa tcattccctt ggaaatggaa nttcctcng gaantttctca 420  
aatccttggc cgganatttc aattc 445

<210> 6364

<211> 444

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-002-Q1-E1-F10

<400> 6364

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ttggaaacaa tgaggagttg tcatcccatg ttttttgcaa agagaatgac tgaggttgct 120  
tcaaatgata ctgttgattg gatggatcag ccgtctgctg gccttgctat ccagggactt 180  
ttgagtcata tcttagtgga agattattca gatatccaaa agaaacttgc tgatagcaat 240  
tctacaacta acggaaacaa ggatgcagaa aacttagtgg acaagcttga agacaatagt 300  
aaggcaggtg gtgacgaatc tgagatagat tcatcacagg atgaaaaagc aagaaatgtg 360  
gtggcgtttt acaagctgga gatgataaag aattcaactt atcacaacac aaagggggat 420  
taagactgaa attnaagggt ggaa 444

<210> 6365

<211> 495

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-002-Q1-E1-F12

<400> 6365

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tcaaacggca tatTTTTccc tctcgagaga gcgataatgt 'ggaaactgaa gatcgcgga 120  
ggaggtagtc catggcttag aaccaccaat aatcacgtcg gaagacagtt ttgggagttc 180  
gatccgaatc tccgtactcc tgaggatctc gccgccgtcg aagaagctag gaagtctttt 240  
tcggataatc gattcgtgca gaaacatagc gccgatctgc ttatgcgcct tcagttttca 300  
agagaaaatt tgattagccc agttttacct caagtcaaaa tcgaagacac tgatgatgtt 360  
acagaggaga tgggtggaaac cacgttaaag aggggtctag atttctaata aactatacag 420  
gcaaaacgaa gggcactggg ccaagtgaat taagggtggg cccaangttt cntcccccc 480  
aaagaactgg anaaa 495

<210> 6366

<211> 439

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB23-002-Q1-E1-F9

<400> 6366

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ttggctagac ggtaaagacg atgacgagct aattgggtggg ggctttttctc ttcattgctcg 180  
tcgtcctaata gctcacgggtg gacatgggtc acgccctaac tctagtgtctc ttcagcctat 240  
ttcaaataag gccagaagc ttactagtca cgttcgtgct tctccttttg agggatggga 300  
aggaagagtt aaagttggga tgtcgaattc tgtgacaact gcgattcgtg gaagtcttaa 360  
agatacaaga aattggggaga agtaggaata ctgataaagc ggaccgggca actgttgaac 420  
aagctcctga ttcaaagga 439

<210> 6367

<211> 190

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-002-Q1-E1-G11

<400> 6367

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnna acggaaaaca tattgaggat gcgaataaaa 120  
gattactgcg tttgattttc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnng 190

<210> 6368

<211> 445

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB23-002-Q1-E1-G12

<400> 6368

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taacacagac cctttttccc tcttactcaa ggttcttctt tgtcatcttg ttgccgaatc 120

cacaaagagg agaataaaga ttcgaccttt attagatatt aacgactctg gattttttggg 180  
 tttttggagt tggatccaca tgggttctta tccggatgga ttccctggat ccatggacga 240  
 gttggatttc aataaggact ttgatttgcc tccctcctca aaccaaact taggttttagc 300  
 taatgggttc tatttagatg acttagattt ctcatccttg gatnctccag aggcataatcc 360  
 ctccnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntgtacaagg agatctgtta 420  
 acatccntca tccgatgacg cctga 445

<210> 6369  
 <211> 393  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-G2  
 <400> 6369

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 gcggcgccgg ggagaagcgg aagggttatc ggcgattatg cgggtgggtcg acaaatcggg 180  
 tcggggtcgt tttccgtggt ttgggaaggg aggcaccttg ttcattggac cgtcgttgct 240  
 atcaaggaga tcgctatggc tcggcttaat aagaagttgc aagagagtct catgtcggag 300  
 attatcatct taaggaagat taatcatcct aacatcattc gctttatcga catgacnag 360  
 gctcccgga agataaattt gggggttggn gta 393

<210> 6370  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-G3  
 <400> 6370

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 tgacgcatac tcgtcgcagt cttgagatat ggccgccga gtttccaccg tcggtgccat 120  
 caacagagct ccgttgagct tgaacgggtc angatcanga gctgtatcag cccagcttc 180

aacctttcttg ggaaagaaag ttgtaactgt gtcgagattc gcacaganca acaagaagag 240  
 caacggatna ttcaangtgt tggctgtgaa agaagacana canaccgatg gngacagatg 300  
 gagangtctt gcctacgaca cttctgatga tcaacaagac atcaccaaga ggcanagggt 360  
 aaggttgact ctgtcttcca agctcctaag gggaaacggg aactcaacaa gnctgtccct 420  
 aactcaatac gaatacntta anccaagggc cttaggcant acaaacttg 469

<210> 6371  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-E1

<400> 6371

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 acccatcatt ctctcacaga tagagaatga gtatggacca atgcaatggg agatgggagc 180  
 agcaggaaag gcttactcaa aatggacagc tgaaatggca ttgggactgt ccacaggtgt 240  
 cccatggatt atgtgcaagc aagaggatgc tccttaccct attatagaca catgcaatgg 300  
 gattttattg tgagggtttc aaaccaaact cagacaataa gccgaagtgt tggacagaga 360  
 actgggactg ggttgntca cnggaatttg ganggtgccg ataccaaatt agancaatcc 420  
 aaagacaatt gcgttcccc gtggctcgtt tcaaacaaga acngggg 467

<210> 6372  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-B4

<400> 6372

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 catcatcttc caaaagctca ccgtcgccga tctagcgctg gcgagctgcg tctgtaagg 180

ttggaattct gtagccacag aagacgatct tgttgatatct gctttcacgg ctccatggcg 240  
 gatcaaagaa cttggttgaa gaccagcttc tgtttcgttt tggagagata acggaatctg 300  
 gaaatttgct atttctcatc ggatttgctg tggatgatat gtgactancc tcgcccgtca 360  
 aatacgccgt tcaanggtta tnggcataaa gcgggctaaa caacatggtn acc 413

<210> 6373  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-B5  
 <400> 6373

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 atcataaaag agctgaggtg atgggtaaac caatggagaa cagagaccag gtgaggcaaa 120  
 cagaatcagc tgagaagagt caccgcaagg aaaatgtgac caagagtgcg aaaccaaggg 180  
 atcaagaagg ggtaaagaag actgaagcaa aggataaaga cagaaataaa gagaagaaag 240  
 agggaaaaaac agagtcgata aataaaactc gtcaggagaa accaaaattg atacgagggc 300  
 ccaagttaga ggaaagagaa aaggactctc cggatttaag aaattgcaag ctgcctgacg 360  
 tttcacggac aagcatcaag aaccttcaca ccganggaaa tcttggaaca cggaangatn 420  
 atatgacaaa tggattccct ggtatgaaaa tggnaccacg 460

<210> 6374  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-B7  
 <400> 6374

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 cgccaccgaa gctaagaatc gcaaaatcaa tgtcggagat ggagatgacg ttgttgatat 120  
 cgaaatccct gacactgctc atcaaattag cagcgattca tggtttcagg tggcgttcgt 180  
 tttgaccacc ggtataaaca gcgcgtatgt gttgggatat tcaggaacaa ttatggttcc 240

tttaggttgg attggtggtg tggttggtct tcttattgct actgcaatct ctctttatgc 300  
 aaacactcta atagctaagc ttcattgagtt tgggtggcag aagacacatt cgctatagag 360  
 accttgctgg attcatttac ggtaaggaag gcttaacaac ctacatgggg gaattgcaat 420  
 aaggttaatc ctttcangaa ttaaattgtg ggttccatta 460

<210> 6375  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-B8

<400> 6375

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 cttcatcttc ttcttcgttt cttaccaaatt cgatatcttc tcattcggtg catagtagct 120  
 gcatttgogc aagttctaga atcagtcaat tccgtggcgg cttctctaaa cgaagaagcg 180  
 attcaacaag gtctaagtcg atgcgattga ggtgttcctt ctctccgatg gaatctgcga 240  
 gaattaaggt gattggtgtc ggtggtggtg gtaacaatgc cgtaaccgg atgatttcaa 300  
 gcggtttaca gagtgttgat ttctatgcga taaacacgga ttcgcaagct ctgttacagt 360  
 cttctgctga gaaccactt caaattggnn aactttaacn cttgggcttg gacngngggg 420  
 aaaccggctt ctnggggaaa a 441

<210> 6376  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-B9

<400> 6376

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 caacaacagt gacgtcattt tccgatcaaa gttaccggat atttacctc cgaaccacct 180  
 atctctccac gactacatct tccaaaacat ctccgaattc gccactaagc cttgcctaatt 240



caacggacca accggccacg tgtacactta ctccgacgtc caggtcatct cccgccaaat 300  
cgccgccaat tttcacaaac tcggcggttaa ccaaaacgac gtctgtcatgc tctctctccc 360  
aaactgtccc gaattcgtcc tctcttttct cgccgcctcc ttccgcgggc caaccgccaa 420  
cgccgcaaac cttttcttca ctccgggggn 450

<210> 6377  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-C1

<400> 6377

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cggaaccgga tttctttgtt ttagtgtctc tagtttcgat ttcttgtggg tttaatgtga 120  
tctgaatcct attttcttct aacggtttct tttctaaatt ctcagatcta aatctgtaaa 180  
gtctaaatct tttctcttcc cggttttgtt gcttgtttgt ctcttctgtc tgcagtttca 240  
attctggccg ttccaactat ggcagaggca ggttttttct tctcttcaa cgcctcagat 300  
gcaaatnccc cctcaattga agatctagat ccctccttcc catccttgag aactttggnc 360  
tttgggggtnc ccgggatgtt gattgaatgt cgcaanggcc gtttnanggg aaaggnagaa 420  
gtcctggggg tttaaattnc 440

<210> 6378  
<211> 435  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB23-002-Q1-E1-C10

<400> 6378

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tattgatata gaagaacaaa ttaatacaat ggactaatgt catagagcaa tttttttttg 180  
ctaaacttca ggatttaact cattcttctt cttgttcaag tggttgctga ttctgaaatc 240

tcttcttcaa taacttaggt cttgggttca taggcttcaa gtacttagat tgaaatctaa 300  
ccatctcttt caaaacacta atcagcttcc tctctatttc ttcaccgtca ggttcaatag 360  
ctcctaagca cegtgcaca acctccgccc tagttacaca tctccgaat gggtcctccc 420  
ttagcacaag ctctg 435

<210> 6379  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-C12  
<400> 6379

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cagaatggct aggcagtgc ttagctgctg ttgctattgc tactttcata agtctgtcca 120  
tggtatacct gctggcctat attcatctct ccggtgcaaa aaagtcgatt gtcacagcat 180  
tatgcattat cactgccctc tctcttctc ttgtatcttc tgggtgttctt cctgcattta 240  
ctgaggatac tgcaagagca gtaaagttag tacatgttgt ggatacaagc gggcaagatc 300  
aagtggcggt tatatcacta ttctcaaaca ctctggaaa cctaaacatg gaagcagagc 360  
anatcaaaga aggggttcaaa tgtggtanan aagaataaga ttgattttgt caagttttga 420  
agctaaatac aattgt 436

<210> 6380  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-C5  
<400> 6380

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cttctctttc tcaaactcag actctcaata acacaaaaac ccagatcttt ctctctcttc 120  
accacaaaaa aaaatcgaaa ctttattttt gcttgatgaa gagcaaaatc caccaccagc 180  
ccaatggtag caacaatggt gttgtttcaa gtaacgataa tggctgccga agtgagtctc 240

caagcccacc tttatctcca aaccgccgtg tcctccgtcg tcaacggcgg caaactttac 300  
tcagagcttc ttctttctct ctccggagaa atcttcgtta cttgcttctc cttectatga 360  
tttacgcttc tggggcttct catgtgtgtt ggtcctttct ctggtcctgt cggatgggtt 420  
tatgttcccc ggtcngttta acgggggccc cgaga 455

<210> 6381  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-C7  
<400> 6381

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taacacttac aaatccggag ctgtagcttc ttcttttgte tcagttcctc gttcgtcgtc 120  
tctccaattt cgctcacttg tgtcagattc tacgtcgatt tgtgggtccaa gtaagttcac 180  
cggaaaaaac agaagagtat cggttaccgt ttccgccgcc gcaacaactg aacctctcac 240  
cgtcctcgtt accggtgccg gtggaagaac aggacaaatt gtgtataaga aattgaagga 300  
gaggtcngag cagttcgtgg caaggggttt agtgaggaca aanggagatt aaggagaaga 360  
tcaatggaaa ggatggaatt atccattggg ggatataana gaatactgca tcaaattggc 420  
nccngcngtt gaaggggatt gatgctttgg gcaatcctaa c 461

<210> 6382  
<211> 438  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB23-002-Q1-E1-D12  
<400> 6382

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tctgtctcaa tcagacgttc aatttcaggt tttgccatgg acaggaagat aaactttagg 180  
gctccgtcgc aattctcgat ccgagctcaa cagtcggatt tgaaggaaag cttagctgtg 240  
tcttcttcat cagtagagga taaaggaaat gttcttagaa tcaaggaatg ggaagtagag 300

atgtatcagg aggaattaag ctattaagtc aaggtattag gataaggaga aaaccaccaa 360  
gtaaggccct ttgggatact ccggaccatt tgagttgaga atgcataaca atgaagccga 420  
atcccccccg taatatcc 438

<210> 6383  
<211> 511  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-D4  
<400> 6383

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gctagaggga atcaaacaat ggggtgtttgt gaagtcaacc aagtcgaaat gcttacttca 120  
agaggtacca aagtgaagtt caaggagaaa gaagagatgg aaagactgac tacagggcaa 180  
ggatccgtct tatcaaccaa gacaagaaca agtacaatac tcctaagtat cgttttgttg 240  
tccggtttac caacanagac atagtggcac agattgtatc tgcaagcatt gctggtgaca 300  
ttgttaaagc ttctgcttac gcacatgaac tgcctcagta tgggtctcact gttggtccta 360  
caaactatgc tgcagcttaa ctgtactggg cntcctttgg ntccccgtgt tttaaaaaat 420  
nttgggaaat tgggtngncc aattttnnag ggnaancntt taagggccct gggngaaaaa 480  
cntttcngt ttagcccaaa cggaattcaa a 511

<210> 6384  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-D5  
<400> 6384

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ggaaatacag ttctctcacc gatcatcagt ttcgtgcgcc gtatcgaatt aggtgcgcgc 120  
ccgcttcacc tgggaaaaaa cggtataaca tcgctctgct tcccggagac ggtatcggtc 180  
cagaagttat ctctgttgct aagaatgtgc ttcagaaagc tggatctctc gaaggactgg 240

agtttgattt caaggagatg cctgtcggag gagcagcctt ggatttggtt ggagttccat 300  
 tgccggagga aactttcacg gctgcaaac tatctgatgc cattcttctt ggagctattg 360  
 ganggggtaca aatgggacaa gaattgagaa acatcctgan acctgaagat ggctccggtt 420  
 ttaaccttaa gaagagattc ccaaaagtcc tttgctaaa tttgag 466

<210> 6385  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-D6  
 <400> 6385

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 ggttcgatta ttactcgct ttgcttcagt cctaacagat actggttggt tgctgctact 180  
 gagaatagca ttaggatttg ggatcttgag agcaagtctg ttgttgagga cttgaagggt 240  
 gatctcaagt ctgaggcaga gaagaatgaa ggtggtgttg gaactggtaa ccagaagaag 300  
 gttatctact gcacaagctt gaactggagt gcagatggaa gcacattgtt cagtgggttac 360  
 actgatggag ttgtcanggt ctgggggtat tggncctttac aananacaca acaaagatga 420  
 agaagaagtc acgaaatccc ccggaaaaaa atttaactg 459

<210> 6386  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-002-Q1-E1-B2  
 <400> 6386

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 tctctccgta atcatcgatc aaaacgatgc tcgagtgtca atcaatgatg gagaaattat 180  
 caccgttcgt agacgtcgcc tctctggaaa tcgagtctct gcgaagaatc aaacgcccga 240

aacgcttctc tgaagaagaa tcagaagaaa ccgagaatac gacgaattca tcaaacgcgg 300  
tattcggatt ccctaactta ccagaagaac cgaatcgccg atatgggatt aaagcgtttt 360  
gttgcanaaa ccgggggttc ggattaccan atgggggnaa gaattccggg gaanntttcn 420  
ttaaaagagg gggaancggg ttaaacttcn ttggggcggt ttggttattn 470

<210> 6387  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-011-Q1-E1-C2  
<400> 6387

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taacactgtc cgcactggcg gaaaggggac agtaagaaga aagaagaagg ctgttcacaa 180  
gaccactaca accgatgaca agagggtcca gagcactctt aagagagttg gagtcaattc 240  
cattcccgcc attgaagaag ttaacatttt taaggatgat gtagtcattc agttcattaa 300  
ccctaaagtt caagcttcaa ttgctgctaa cacatgggtt gtgagtggta caccacagac 360  
gaaaaaattg caaggacatt cttcctcang attatcangc caacttggn cagataactt 420  
ggacaacctg aagaagctag caagagcaat tccaganaca aagctccaag tgnagggt 478

<210> 6388  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-014-Q1-E1-A4  
<400> 6388

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tttgaagtac acagaaggcc tttgttgggt catgcattac tacatggaag gtgtttgctc 180  
ctggcagtggt ttctatcctt accactatgc accattcgct tctgatctga aggatttggg 240

agagatggat attaagttcg aattaggaac tccttttaag cctttcaatc aacttcttgg 300  
 ggtgttccca gctgcaagtt cgcattgact tccagagcgc tacaggacct tgatgacaga 360  
 tcccaactct cctatcattg atttttaccc aactgatttt gaagtcgaca tgaatgggaa 420  
 acgtttttcc tggcanggta attgct 446

<210> 6389  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-014-Q1-E1-E1  
 <400> 6389

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 tatccgtacg aaaatggacg gtgttaccgg cggaggaacg aatatcggcg aggctgtgac 120  
 ggcgccacca ccgcggaatc cgcattccagc gacttnactt aatgcgaact ctttaccgcc 180  
 ccctttctct agcaagacgt atgacatggg ggaagatccg gcgacggacg cgattgtctc 240  
 atggagtcgg acgaacaata gcttcattgt ttgggatcca ccggagtttt ctctgtgatct 300  
 tctacctaaa tacttcaaac acaacaattt ctccagcttt gttcgccagt taaacaccta 360  
 tggtttttagg aaagtggatc caagatcgat gggaatttgc caatgaaggt ttcttaagag 420  
 gtcaaaaaca tctattgaag gaagataagc cggagaaaat cctgntc 467

<210> 6390  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-A10  
 <400> 6390

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 ccggctactc aaagatcatc cccatcggag aatcttctcc tccataggaa aatgtcgtct 180  
 aattccctga ggcattgtcg gtccatgtcc cagctaccct caggtgccgg aaagatctct 240

caattaaacg cgcgcgtggt aggagaatcc ctgcatcgg aggagaatga tctcgtcttt 300  
cccagcaagg aattctccgg ccaaggctct tgtttcctcc cctcaacaag tacatggaaa 360  
tgcataagan gtccatggat gaccctgctg cttttttggt ccgatattgc gtctgagttt 420  
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atttcggcgg gataagctct tcgctcaagg atactcttac acctacgacg acgtcatctt 180  
tcttctcac ttcacgatt tctccacaga cgtgttttct ctatccacgc gccttagccg 240  
gcgcgtgcct ctctccatac cttgcgtttc gtctccgatg gatactgttt cggaatctca 300  
catggctgct gctatggctt ctcttggtgg ggattggaat cgtccactat aactgtggga 360  
atcgccgctc aaagcatccg anttaatccg ccaaagctaa ngtcgcntaa acatccgatt 420  
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ctttcgccgg aaatgctctt tccggccaaa tctccgtcgc taacttcttc tcgcatcaga 180  
aacatcttct tattactcat cttttgtttc atcatctaca tcatcttctc ctacggcacc 240



aatttccgcc gtgaacagat ttcatacaatc gctcgatcgt tatctgtgtt ctccactcgt 300  
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 tacgttcgtc tctggtantc tcctgaatct acnngcgccg tcgtgtttct cgatcgccgt 420  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 aagaatcatc aaacggagat gatgatgatg ttgcttcacg gcgtgagaga atcattttag 180  
 tcaacccttt tacacaagga atgattgtgc tcgaaggctc atcaggaatg aatcctctgc 240  
 ttcgtagctt actggagtca cgtgaggaag gtcgtcctcc tgcgtccaag gttccatcg 300  
 atgcgatgcc gatcgttgag attgatggct gtgaaggaga gtgtgtgacg tgtttggagg 360  
 agtggaaagt ccgangagac ngtgaaagga gatccgtgta agcatangtt tcacggtgga 420  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB23-001-Q1-E1-A5

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 tcccttcgag ctcgaaaccg gggtttgttc tcttcatatt agccttatga tgtatgactc 180  
 tgtgttctct aagttttgga gttaaatcat taaggtagat tgggtgttggg gaggaagatg 240

aagatcaaat gttctactac ttcaccaaat ctgagagcaa tccaaaaaca gaccctcgtc 300  
 ttctctggct aagtggagga cctgggtgct cttctttcac tgggtttata tatgagaacg 360  
 ggccacttgg tttcaagggt gaggcgtaca atggaagtat cccacggtg gtctctacta 420  
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<210> 6395  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-001-Q1-E1-A7  
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 tatcaaagag acaatcgatc actctttagg gcttccgata tccatggacg ttctccagaa 180  
 aaagctctac acggcggaag aatctcagcg tcgtctccgt gaacagtatc tatctctggg 240  
 ttcgagattg aaagagaaag aaaaagtaat cgatctcggt agatccgaag cgagtatgaa 300  
 tgcccagtcg ctgaagaaat tcgtcgaaga gaatcagaaa ttgggaagcg agcgcgagga 360  
 tttggtgaat cagtgtgaaga agtgggaaaa agaattgctt ctttatcatc aagatcgtga 420  
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<210> 6396  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 cgtttaataa tagggacact ccagaggatg cgtgtattta atgttgagaa cagagatact 180  
 ctgactcaca aggcgacagg gtattctgca agactcctaa ggaagccaga tcagtgtaga 240

gctgtttatg aatgtgcgca tctcttctgg gctgacgaat gcgagaacct ganngatgga 300  
gagaggggttg tgctttgcct gaagagggca caaaggattg caagatgctg ttcaacaaat 360  
ggccaacgca tcccgtagta ccaagtagca ctgggtcggt gtctctatat gtcgaactgc 420  
tgaacaagta tctctacntc ctggagaaa 449

<210> 6397  
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<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-001-Q1-E1-B10  
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ttcatcggtc tgcgcgcct cgcacatcgt ttcaccttcc tcagaatctc tcttccccgc 180  
gattagtttc ctgagagggt gcgatttggt gagaaccttg atttagacta tgaagtctct 240  
taatgatctt cctgcgcccc aatcaaccac taccacgtat tatgatcatt ctaatgatgc 300  
ttggttcaaa aaccgagtca ctgaatccga gacggtgaaa tcttccagta tcaaatttaa 360  
agtgggtgct gcttacctga atcgtcaagg ttacgtccg aagaatccaa gangattttg 420  
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<210> 6398  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana  
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agcaagaatg ttaatccccg aggagaatcc gtctcttcaa tacaagttgt cgagaagaat 180  
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gaggaagatg aagaagctag tggcgggtgga ggccgtatta ataaagggaa aaagaaagcg 300  
 aaaaagagcg gtggtgggtt agaggaagga tcacggtgca gccgtgttaa cggtagagga 360  
 tggagatggt gtcagcaaac gcttgttggg tattctcttt gtgagcatca tctcggtaaa 420  
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<210> 6399  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 acgacgaaac ggagaagagg ggacgatttt gccagccaag aaacaaagaa ttgttaagga 240  
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 aagcaaagct tccaatagga acgttaacga aaccaaacct cttcatcatc tcttcccaaa 360  
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<210> 6400  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB23-023-Q1-E1-G2  
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atgagatcaa tttcatgctg gaaggagact tttgaagtga tcgatgggtc cttagtttgt 360  
aaataaagct gtgttggtt ttgctgttgg gggatgggtac aagtcacacc tcaaagctcc 420  
aagcattgggt atcctcatga acctctcctc caataagana agttccccctt taaattttg 479

<210> 6401  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-010-Q1-E2-H5  
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cattgttgta atttcaaaac ttcataagaa tttctctgat aataaagaaa aagctggagt 180  
agaactatatt taaagtgtca tcatgaagag actaagcagc tcagattcaa tgtgtgggtct 240  
aatctccact tctacagatg aacagagtc aagagggtac ggaagtaatt accaatctat 300  
gcttgaaggt tacgatgaag atgctacact aatcgangaa tattccgna accaacaaca 360  
catgggtcta tcggagaaag aaagagaaag aataaaaagt tgancaagtc aaagctcctg 420  
agaaagaatt ccgaacttga gaataaaccc aaact 455

<210> 6402  
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<212> DNA  
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<223> Clone ID: LIB23-017-Q1-E1-D7  
<400> 6402

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cggcttcaag ctgtgaatcg gaagttgacg gcaatgaaca agctcttgat ggaggagaat 180  
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cagcaccaat tggcatctca aaatcctcag agagatgcta gtctctgcagg acttttgtcc 360  
attgcagaag aaacttttagc agagtttctt tcaaaggcaa ctggaaccgc tgttgagtgg 420  
gttcagatgc ctggaatgaa gcctgggtccg gattccattg gaatcategc tattttctcat 480  
ggttg 485

<210> 6403  
<211> 485  
<212> DNA  
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<223> unsure at all n locations  
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ggatggttcg gttggaggag gagatgggaa tcagcatcag gaaatgggtt ctactacttc 420  
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ttccc 485

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<212> DNA  
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gtttcgtacg gaatcttcat gtgtttggaa tgctccggga aacaccgagg cttaggcggt 240  
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atggaagctg gtggtaacga acggctcaac aaattcttcg cgcaatacgg aatcgctaag 360  
gagacagata ttatctccaa gtacaattcg aacgctgctt ctgtgtatcg tgaccggatt 420  
caagctttan ctgaaggtaa a 441

<210> 6405  
<211> 456  
<212> DNA  
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<223> unsure at all n locations  
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cttgatccaa ggtccacctg gcacaggcaa aactgtgact tctgcagcaa ttgtgtatca 240  
catggcaaaa cagggccagg gacaggttct cgtttgtgcc ccaagtaatg ttgctgtgga 300  
ccaactagct gaaaaaatta gtgctactgg gttaaagggt gttcgcttt gcgcaaaatc 360  
aagggaagct gtaagttctc ctgtagagta tttgaccctt cactaccagg taagacatct 420  
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<210> 6406  
<211> 457  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB23-002-Q1-E1-F6  
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tgaccgtaga agagaggaat cttctctcgg tcgcgataa gaacgtgatt ggatctcttc 240  
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 aacacgtgtc gcttgtaag gattacagat ctaaagttga gactgagctt tcttcgatct 360  
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<210> 6407  
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 <212> DNA  
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 <223> Clone ID: LIB23-019-Q1-E1-F8  
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<210> 6408  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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cacgtgctca cgctcagttc ggtaataaat gggcgacgat tgctcgtctt ctcaacggtc 240  
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cgggatctcc acctgttggt actgggcttt acatgagccc aggaagccca actggatctg 420  
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<210> 6409  
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<212> DNA  
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ccaagttaac gtgaaagagg aggcagtga gaaggagcag gcaacagagc cggggaaacg 240  
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tgagattcga gatcacgaaa aggtgttaga gtttggttg gtacntcaan acgnggang 360  
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<210> 6410  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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actccatccc accaaccaag ttaacgtgaa agaggaggca gtgaagaagg agcaggcaac 240  
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gggaaaatgg gcggtgaga ttcgagatcc acganaaggt gttagaattt ggcttggtac 360  
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<210> 6411  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<210> 6412  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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aggatgactc ggcttttgac tgcgaagacg atgatgatgt ctctgtcaat gttaagcctt 360  
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<210> 6413  
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<212> DNA  
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<223> unsure at all n locations  
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gattacgagc agattgttcg taaaacatgc cgtgagattg gattcgtctc tgctgacgtt 240  
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318

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tcgtggcggc taagtgggtc aacaacccat cctccgcgtt accttcggc ggcgggcggt 360  
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<210> 6441

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-123-Q1-E2-F8

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ctctggttgc tcgtgcttcg gcttcgggt tgggtctcat ctacggcaac atcaagctca 180  
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ccaactcgtc ttctccttct caataagatt atgaagccaa gtgattgtta tctctaaatg 300  
tagttctttt cctccttaag ctatatctcc ctccggtgaca ttttttccat ctttctgttt 360  
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<223> Clone ID: LIB24-127-Q1-E1-E2  
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tgggtgtacc ggtactgcaa gtgacatttt tggctgtgta aaagatgttg gagctaattg 180  
gattatgata tcacaggcta gcagtgagca ttctgtgtgc tttgctgtgc ctgagaagga 240  
agtaaacgca gtctctgagg cattgcggtc gagatttagt gaagctttac aagcgggacg 300  
tctttctcag attgaggtga taccaaactg tagcatctta gctgcagtcg gccagaaaat 360  
ggctagtaca cctggagtta gttgtacact tttcagtgtt ttgggcaaag ctaatattaa 420  
tgtccgag 428

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<211> 421  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-123-Q1-E1-F8  
<400> 6443

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ctctgggttgc tcgtgcttcg gctttcgggt tgggtctcat ctacggcaac atcaagctca 180  
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tagttctttt cctccttaag ctatatctcc ctcggtgaca ttttttccat ctttctgttt 360  
ttttaatcaa aatcttctgt ctgacaaagc aatcgtatac ccgttttggt ttaaactga 420  
g 421

<210> 6444  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-066-Q1-E1-C11

<400> 6444

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tctatctgga acagatgttg ccagaaaagt aacaatcctt gccagagaat caggcttaaa 180  
attggatctt gagggccttc cagtccagaa tcttgtgcca aagccgttac aagcttgtgc 240  
atcagcagaa gagttcatgg agaagcttcc tcagtttgat gaagaattat ccaaacaaag 300  
agaagaggct gaagcagcag gagaagtctt gagatacgta ggagttgtag atgcagtaga 360  
gaaaaaagga acagtcgagt tgaaacggta caaaaaagat catccg 406

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<211> 380  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-092-Q1-E1-B4

<400> 6445

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ggatcttga gaaacgggtt tctggaaaca aggagttcat acatcgcgat catgatctat 180  
cgatcttcat ttatctataa aagcgtcaat gagattatga tggagtctaa aggtggtaaa 240

aagaagtcca gcaatagtag ttccttattt tacgaagcta ctctctgtta cagcattgat 300  
gacgttagtc caaacggtgg aatcaagaca ttcaaattctt cagttcacgc aaactgcttc 360  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-131-Q1-E1-H2  
<400> 6446

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atatctggag aaaggggttt ctggaaacaa ggagttcata attcgcgatc ttgatctatc 180  
gatcttcatt tatatataaa agcgtgaatg agattatgat ggagtcgaaa ggtggtaaaa 240  
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acgttcgtcc aaacgggtgg atcaagaa 328

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<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-095-Q1-E1-F11  
<400> 6447

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ctggagaaag gggtttctgg aaacaaggag ttcataattc gcgatcttga tctatcgatc 180  
ttcatttata tataaaagcg tgaatgagat tatgatggag tcgaaagggtg gtaaaaagaa 240  
gtccagcagt agtagttcct tattttacga agctccccctc gggttacagca ttgaagacgt 300  
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gccatcctga ataccagcgt gcaccga 387

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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-048-Q1-E2-C3

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agttatagct ttctttactt tccagtttat aattttcttc tttcaaagct ccttttctgc 180  
tggttcccgg atccaatcgt tctctcctcc tactacaagt cctgtcgctc acacaacaag 240  
gcgagatggc cttatctgca atcggtttcg aaggttacga gaaacggctc gaggtgactt 300  
tctttgagcc aagcatcttt caagactcca agggactggg actccgtgct cctgacaagt 360  
cccagcttga tgaaattcct acacctgctg caatgcacga tcgtttcac tctc 414

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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-136-Q1-E1-A4

<400> 6449

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atctggagaa aggggtttct ggaaacaagg agttcataat tcgcgatctt gatctatcga 180  
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aagtccagca gtagtagttc cttattttac gaagctcccc tcggttacag cattgaagac 300  
gttcgtccaa acgggtggaat caagaaattc aaatcttctg tctactcaaa ctgctccaag 360  
aggccatcct gagtaccaac gtgcaccgat cttcataata tag 403

<210> 6450  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-006-Q1-E1-H8

<400> 6450

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aaagggggtt ctggaacaaa ggagttcata attcgcgata ttgatctatc gatcttcatt 180  
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cagtagtagt tccttatttt acgaagctcc cctcgggttac agcattgaag acgttcgtcc 300  
aaacggtgga atcaagaaat tcaaactctc tgtctactca aactgctcca agaggccatc 360  
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<210> 6451

<211> 425

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-016-Q1-E1-F11

<400> 6451

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tgcattggaa tctttctggg atggtaagag cactgctgag gatcttcaga aggtgtctgc 180  
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caacaccttt gctcactacg accaggttct tgacaccacc gccatgctcg gtgctgttcc 300  
acctaggtat ggatacactg gtggtgagat cggccttgat gtttacttct ccatggctag 360  
aggaaatgcc tctgtgctg ccatggaaat gaccaagtgg ttcgacacca actaccatta 420  
catcg 425

<210> 6452

<211> 368

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-132-Q1-E1-A8

<400> 6452

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 acacccagac aagctttgtg accagatttc tgatgcatc cttgatgctt gcttagagca 240  
 agatcctgaa agcaaagtgg cgtgtgagac atgcaccaag accaacaagg tgatgggtgtt 300  
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 ggagattg 368

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 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 6453

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 cggatttgcc aacaacagtg tcaaaatcag ctccagattt ctgcaatgtt tangtcattt 180  
 caaaaggcaa aattgcttca gtacgaaatg catcacgtcc tgctccttac caaaattcga 240  
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 atgaccatcc caattctgca ggtagtacac catctagacc gcgcaaatca gttgaagcag 360  
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 <212> DNA  
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 tcagtccctc acgaanagtc caacaagtgg ttgatccggc aacatctact taacctaatc 180

tcttcttacc cttccttaga gcccacaaacg gcatcgttta tgcacaacga tggctcgtcc 240  
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atacctgtga ttatctggct cctcgagtc tctcctcgtc atcctccttg cgtctangtg 360  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-048-Q1-E1-A7  
<400> 6455

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accatccaaa ccgcccgtact catcgaaacc ctaactgctc tcggtgctga agtcagatgg 300  
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gccgctgttt tcgcctggaa aggtgagact ct 392

<210> 6456  
<211> 419  
<212> DNA  
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acttgggcaa gcttgagacc aggcttaca agctgtcaaa ggaccaatct gactacgtca 240  
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tcgacaaagc ggttcaggtt cggatctact tgtgggtttg tgttgggttg tgggtgggaga 360  
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<212> DNA  
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<223> Clone ID: LIB24-101-Q1-E1-F5

<400> 6457

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ccaaaccgcc gtactcatcg aaaccctaac tgctctcggg gctgaagtca gatggtgttc 300  
ctgcaacatc ttttccactc aagaccacgc cgccgcagcc atcgctcgtg actccgccgc 360  
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<212> DNA  
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<223> Clone ID: LIB24-113-Q1-E1-E1

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<223> Clone ID: LIB24-079-Q1-E1-F12

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 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-048-Q1-E2-A7

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<210> 6461



<211> 426  
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<223> Clone ID: LIB24-015-Q1-E1-B7

<400> 6461

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<223> Clone ID: LIB24-064-Q1-E1-F8

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<223> Clone ID: LIB24-069-Q1-E1-B11

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<210> 6464

<211> 421

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-090-Q1-E1-F11

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<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-118-Q1-E1-G7

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 <213> Arabidopsis thaliana  
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 aagcaccttg caggcacttg aaggcattgt tggtaaagac aagcttgttg tctcaacctc 240  
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 gcaacacctt tgctcactac gaccagggtc ttgacaccac cgccatgctc ggtgctgttc 300  
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gaggaaatgc ctctgtgcgt gccatgggaa tgaccaagtg gttcgacacc aaactaccat 420  
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<210> 6468  
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 <223> unsure at all n locations  
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 attcaggaaa tacggcaagg ttgagagggg tgatatgaaa gctggggttg cttttgtata 180  
 catggaagat gaaagggatg cggaagatgc catccgagca cttgaccgct ttgaatttgg 240  
 gcgtaaggga cgcagacttc gtgttgaatg gacaaagagt gaacgtggag gtgataaaaag 300  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 <223> Clone ID: LIB24-136-Q1-E1-A9  
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 aaacatgcat tggagtcaac atcgctaaca atgatcaagt atttgagtat gctcaaactg 180  
 catttgtcga aaacggtgac aacgatgatg acgttatcta tgattacgct ccagcagcat 240  
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ctataaatcg tcgagcattt tattctctca aaaaaaaaaa aaaagggcgg ccgctcctag 420  
aaggattcaa gcttacgt 438

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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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taccacctcg cctcatggga tnccaaaacc gactgttgct cttggtantg cctcgagtgc 180  
ggcgacgcta ctgtcaacca ccgtgtcact tccctaataca tacaagacgg cgagatctcc 240  
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ctcactaacc tctactggta catccaaccc actatcgcca agctcaagaa cctcactttt 360  
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<210> 6471  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-136-Q1-E1-B7  
  
<400> 6471

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cttgagtata ccatgaaagg tcttcactga ggttggaactg aagtctggct ggatgctata 180  
aaagaatgta tacttgcagg acaatgtgga ttctgaaggg catcatgggtg aacgcacacg 240  
gacaatacac gaagcagctt aagcaaacca aactcgggaa gatttttggg caatagaagg 300  
ctagctgctg caaatccgcg tgtgaaatgg agtctcgaaa gcacttattg ttgcatttgc 360  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6472

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 ctgggtttta ttttcgattc aatcttcac tccttgatcc acagccatga ctgagtattg 180  
 ggtaagtcaa gggaacaaat ggtgtgaatt ctgtaagata tggatacaga acaatccaac 240  
 aagtattaga aaccatgacc ttggtaagcg tcaccgagaa tgtgttgata agaagctcac 300  
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<210> 6473  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-136-Q1-E1-B9

<400> 6473

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 tggaagtcat ctacatgttt atagttggcc aggaggtgaa ataaaacaat taattgacct 180  
 tggaccgact ggtctcttac ctttggagat tagattcttg catgatccat ctaaagatac 240  
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 aacatggagc catgaggttg ttatatcggt taaaccgttg aaagtcgaaa actggatact 360  
 tccagaaatg ccggggctaa tcaccgactt cttgatctcc ctcgatgacc gatttattta 420  
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<210> 6474  
 <211> 416

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-136-Q1-E1-C1

<400> 6474

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caataattcc gtctacatct tcgatgatcc gtggaagaac cgcgaaagta attcccagaa 180  
atgtcatttt tacgcttagt aggagttcca tttctgagtc tccattgatt tctccgagtc 240  
gaataaacc taaattagcc ggtagtttct cgttcaacat ccgattattg agctatttca 300  
ctggttagaaa tggcttttgt cccgattggt ctgtaccgag agaccctaatt tttgttggat 360  
tgactacaca atgtcggagt antgtcagga aggtttgtan tgaaaagaat gggaat 416

<210> 6475  
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<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-136-Q1-E1-C11

<400> 6475

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ttatcccctg atgcagacaa gagtgtccgc aatctctaca cctccacag tgtcttgggt 180  
cacagtggag gagtgcattg agggcattat tatgctttta ttaggccaac actttcagat 240  
cagtgggtata aatttgacga tgaacgggtc acgaaagaag atgtcaaaag agcactggaa 300  
gagcaatatg gtggtgaaga agagttaccg cagaataatc ctggtttcaa taatccacct 360  
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<210> 6476  
<211> 399  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6476

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anccttggtt taatgattga tggtttttac aaggaggaga agtttgatga agtgaggaaa 180

gtgatgagaa tgatggatga atttggtggt catgttggtg tagctacata caacattatg 240

attcaatggt tgtgtaaaag gaanaaatct gcagaagcaa aggcgttgat tgatggggtt 300

atgtcntgta cgatgagacn aaactctgtg acgtattcgc ttttgattca tgggttttgc 360

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<210> 6477

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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<400> 6477

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atcgtagccg tccgatcaac aagtaccatc tcttgaaata ctcgaaatcc tcataagtcc 180

gtccctcttt gctctcacta tcaaaactct gaatttcgat ttcaatggag tcacgcgtgc 240

tgttacgcgc caccgcgaat gtcgttgga ttccgaaatt gagacgacca atcggagcga 300

tccaccgtca attcagcact gcacgtctt cctcgttctc ggttaaacca atcggaggaa 360

tcggagaggg agcgaatctg atctccggtc gtcagcttcg tccaantctt cgtctcnaat 420

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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-136-Q1-E1-C9

<400> 6478



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 gtttgatgaa gaaggtacac gaactctcga ctctttgtgg catcactgca tgtgcgatca 180  
 tctacagccc gtatgatacc aaccctgaag tgtggccatc aaattccggt gtgcaaaggg 240  
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 agggttttct caaacaaga atcgcgaaag cgacagaaac tttgaggaga caaagaaagg 360  
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<210> 6479  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 taataacaat caatccaaca acgaatggag attgaagaag cgagtcgtga aagtggacat 180  
 gttgtgtgcg gatcatggat tcgtcgcccg aagaaagtaa actgggttct tatcgctaaa 240  
 gcttccaaac gccgtggctc atctgtttct tctcctgctc tcctcaacat cttctctttt 300  
 gacccatta ctgcttctct ttctcctct cctttggcaa cacacacgct taaggatagt 360  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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tgggtgttgt cccgatgtgaa gagatttgtc tctcgggagg tttgggttcga caaaagatga 180  
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 ttcgtgctcc ttccaagatc ttctggcgca ctgttcgcgg gatgattcca cacaagacca 300  
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<210> 6481  
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 <212> DNA  
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 tctgcgctta tgatggtaca cagagtgtga gtatggggat ccagtcagtt gtagacgatg 180  
 gaacatcggg tcttttaaac caagcgatgt gcagtgttg cgaaatggca gccgtgtgga 240

tggagagcga attgactcag aatcaaacac aagaacgcat actcgcttat gctgctgagc 300  
 tatgtgacca tatagcaacc canaaccaac aatcagcaat ggactgtggg aaggtttcgt 360  
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 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 acacagatgg attaccgacc ttctgatagt agtgggtaca gatgatgacc tgctccatc 360  
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 <212> DNA  
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 <223> Clone ID: LIB24-135-Q1-E1-F6  
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 ggcggcccgat gatgcgttc cgaggatcac gactgagaag ggcggcaaact ctccagggcc 180  
 ggcagacgtc tgccaggatg acatcgacc gcgggtcaac tttcagacca tcgacgagct 240  
 tcacagtctc cagaagaaac gatctgcccc taccactcct cttagagatg gcagcgccag 300  
 cggagtcagc ggaactagtg gtccgactac tctgtctcc agcgagacca tgcttcaatc 360

cgtcagtgc t cgttggctt cgttgacgag aagagacagg accgaagtta ataagaggag 420  
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<211> 417  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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cagaacttta ttacgcgggt antcatggaa tggacataat gacttcttct gatgggtccga 240  
attgtttcaa atccactgac caacagggta aggaaagtga atctgtttca gccgcgag 300  
agaattcata ccggttatcc gacgaggttt ttagaaccct tgttgnnaaa atgnaagata 360  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-G12  
  
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 tcttaaccac atcgcttcgc atggttacat tcttgtagcc ccacagttgt gcaaattatt 360  
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<210> 6489

<211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <400> 6489

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<210> 6490  
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<211> 400  
 <212> DNA  
 <213> Arabidopsis thaliana  
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<400> 6491

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<210> 6492  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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<400> 6492

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ttggtcaaga agctgggcta acttgtaccc agaagatgac ctttctagaa agttgctcga 180
ggaggtgaag aacagctact atttggtaag cttagtggac aacaattaca tcaatggtga 240
tatcttctct gtctttgctt gatctccgag aaaaccaccg gcgaagagga aacattcgat 300
ttcgagattt gttttgtacc ttttaaagtt atttttgatt cgtaataacc ttactttgat 360
gaatcaacaa aaacatcagt ttgattgcaa tnaaaaaaa 399
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<210> 6493  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-H10

<400> 6493

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ctctcgatta tatcacaagg agatatgggg aacagtgaaa tgtcagcgag tgaggttgcg 180  
gcggccaagc agaagaacgt cgacgattgg ttaccgatca catcttccag aaacgctaag 240  
tggtgggtact ctgcttttca caatgtcacc gccatgggtg gtgctgggtg tcttagcttg 300  
ccctacgcta tgtccaatct cggatgggga cctggagtga cgattatggt gatgtcatgg 360  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6494

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agaagagtat tccagagcta ctttgcattg acgaggaggg aggcctgatg ggcctaacaa 180  
gctggcagaa agtggcaagc aatcaggagg agataatccg ttgaaggaag acaagccgcc 240  
agaaagagat aagctgccga gaaaagacaa gccatccaag gaagacaatc tgctgaaagg 300  
agataagccg gtcgaggagg ataaattgcc ggctgaggaa gaaaaaccgc cacaaaaaga 360  
taaaccggcg ganggacaca aaccggcacn aaaa 394

<210> 6495  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-H4

<400> 6495



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 tgctactctc aaagctctc tttgggaaca tgtttccagg aagctattgg agttaggtta 180  
 caaacgaagt tcaaagaaat gcaaagagaa attcgaaaac gttcagaaat attacaaacg 240  
 tactaaagaa actcgcggtg gtcgtcatga tggtaaagct tacaagttct tctctcagct 300  
 tgaagctctc aacactactc ctctttctca tcttcacgct nnnnnnnnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnnnnn nngatggtca tgagctcgga acaatcatca ttacatcatc 420  
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<210> 6496  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-H7  
 <400> 6496

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 tgcacgttc agatgataaa atctaaagtt ggaagtatca aatcgggatg gaggagtgtt 180  
 tttatgatat ttacagcagc tgcagatgac gaagttgaat cgatagttga aaaatcattt 240  
 gagaatgttg agcaagttat tctggaacac tttgaccagg tgataggtga ctgcttcag 300  
 gatttgtgtca attgtctcat caggtttgcc aataacaaag cttcaagacc ggataagcct 360  
 gaaagctatt tgcccttctc agaatatgtg anggattggn ctggcagaag ggaa 414

<210> 6497  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-H8  
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atacaccgan aatgggatga ggtgaagacc tggcttacaa gaacacngta caatgcatca 120  
 caggaacaat ttcaaggact atctctaccc anggaatggt ggctgtgtan aactccttgt 180  
 ctgaagaang taaaanagat tttgngactg catacanegc atccttctat ccttgtangg 240  
 agattctcta tgaatgttac gatgatgtac aaagtggcaa cgaaatccgg tagtgttgtc 300  
 catagccggt cgtcgcttct annanaagga aggcttgcca gcattcccta tgggaaatat 360  
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 t 421

<210> 6498  
 <211> 362  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-136-Q1-E1-A6

<400> 6498

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 gaagatctag aattacgtgc gaagcttggt atgttggtat tgcgttat tgtcttagca 180  
 cataataaag gtcaatctga ccaaaagaca tatcaggatga gtctgttcat tgtttcctcc 240  
 aaatgaagct ttaaaattta gagcttaaca ccaattgaaa aataaactca catgaatttg 300  
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 gg 362

<210> 6499  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-F5

<400> 6499

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tgtcaaagcc atggaatttg aaagaggaag aggagggagt tgtgtttgat actggtggtg 180  
aagtgccgtt tagctttgag aatagcttgg aaatggcgga ggaagagcgt gtgaagaagg 240  
agttgattga gaaggaagag aangagcttc ttgaggttat caagggctct gatcgagcat 300  
ttggagacct tattgctaag tcaggtataa cagatgaaat gctagatagt ttaatagcct 360  
tgaaagattt ccaaggggtc gaaggattac ctctctgac tgaagattga aaaaccgcgt 420  
ccttgaaaaa aat. 433

<210> 6500  
<211> 481  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-C8

<400> 6500  
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acccccttgg agtaacccta ccccggcac gccgattctc cgcttctgtc accgttttta 180  
gctcgaggct tgtggactac gaggagccat tcgttaagag cttctggaac tacctcgagg 240  
cggctaagga tttcatcaga ccggaagaca acggcccatc tcgctgggtc tctcccctcg 300  
aaagaagcaa ggatccatgt gacggtgccc cgctccttct ctctctacct ggtatcgacg 360  
gaaatggact cgggctaata aggcagcacc agaaacttgg acaagatggt tgatatctgg 420  
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a 481

<210> 6501  
<211> 405  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-D10

<400> 6501  
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gtcaaactca agttcaagat ctggtgaatt tggaatcntg ctggtgaagt tagagatgan 240  
ttatttccca gatgaagtaa tagagcatgt attcgacntt gtaacatctc acaaagacag 300  
gaangcnata tctcttgat gcaaactcatg gtanaagatt gaaagatata gtangcaaan 360  
ggttttcatt ggganactgt tangccatta atccanagaa gttgc 405

<210> 6502  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-D12

<400> 6502

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gtcgtagtcg ggcgcggtt cgtagtcgga gtccgagaga caggagaatg agatctgaac 180  
gagttttctta ccatgatgct ctttctagaa gggagagggg gccacgtcgt gccttcagcc 240  
aaggaaatct ctgcaacaac tgcaagcgac ctgggtcactt tgcaagagac tgttctaattg 300  
tttccgtctg taacaactgt ggtcttccag ggcacattgc agcagaatgc actgcggaat 360  
cacgttggtg gnactgtaga gaaccggggc cacgtancct caaactggtc a 411

<210> 6503  
<211> 394  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-D2

<400> 6503

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tctcaagcct tagctgctgt ctactccaag ttgcagagaa gtaattgcac gcttgctgag 180

ggattcatgg agaagtgttc tagcattcgt caagttattg atgaagatat aaattcagtt 240  
gatacatcta aagtggaaga aggtacgagc aagtgatgct ggaattaaaa attcantgat 300  
ccctgaatcc tctatgaatg tcttgagact ccttagacgt caaggtttcg atgcatacct 360  
tgttggtgga tgtgtaaggg ganttaatac cgga 394

<210> 6504  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-D7  
<400> 6504

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atctcgagtt tttgtggttt gggttttttt cccgatttag cctaacagat aaagtttcga 180  
gttttgtttc tcttaatcat cgtagatact aaccgaatca tcatggagaa gaactccttc 240  
aagctttcta atcctctgga gatgagaatg gctgagtcta ctcgatcag agcgaaatac 300  
cctgaaagag ttcccgtgat tgtggaaaaa gctggacaga gtgatgttcc tgacattgac 360  
aagaagaagt atcntgtacc aactgatcta accaattggg caaatttgtg tacgttgg 418

<210> 6505  
<211> 473  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-E1  
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agaactattg atcgtcgcan angactcatc atagccatgg atactgcant tgggatggag 120  
tatttgcacg gaaagaacat tgttcatttc gatttgaagt gtgagaatct tcttgtgaac 180  
atgagagatc ctacgcgtcc tatatgcaag attgnggatt tggggttatc ganggtgaaa 240  
nanangactc tantatcagg aggtgttcgt gggactttgc catggatggc acctgagctc 300

ttgagtggga aaagcaacat ggtctctgaa aanatcgatg tttactcctt tgggattgta 360  
 atgtgggaac tactcactgg tgaagaanca tacgcagaca tncattgtgc ttccaaaatt 420  
 ggaggtacat tgaaaaccgc attggtccan naaatcccnc agtgggggttg atc 473

<210> 6506  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-E2  
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 tttaaaagat atcaatatta gttatcttct attctttgaa catttgtgtc catctcatga 180  
 agttcaggaa gcgtaggcaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnaaactcat atcaaatttg aatcttatca tcaaattgag 300  
 agtaatcaac gacaccactg caatcttgca tatacattgt tcttgtgtat tccacccgtt 360  
 tctttaatct tcaatgtacc gtaattgagt gtcnttttgg gttgtaacct gtaagggtga 419

<210> 6507  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-E3  
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 agaaacagta atggacgaat atattgattt ccgaccattg aaggtagaca gagcacaaga 180  
 cttcaatgac taaatacacc aaaaagtcac cggaaaaact ttccgggttg taaagtcatt 240  
 gaaaaagggtt agtatttgtt atactgatcc tgacgcaaca gattcatcaa gtgacgaaga 300  
 cgaagaagat ttcttgtttc ctcgccggag agtcaaaaga ttcgttaacg agatcactgt 360

tgagcctagc tgtaacaacg tcgtcaccgg agtttcgatg aaagatagaa agagactctc 420  
ntcttcctcc gatgaaactc aatcctccgg nggtcnagtc gtcaaacgtc ct 472

<210> 6508  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-E4  
  
<400> 6508

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aagccctagt tttgatcatc gcacttcact ctccctccgca tgagaaatcg agaaatccgc 180  
tcgacgtagt agatagataa aaccacaaag ttaggttttt ttcaattggg tatggaacct 240  
cgtgttggga acaagtttcg ccttggccgc aaaattggga gcggtctttt cggagagatt 300  
tacctcgga ctgatgttca gactaacgaa gaagttgcta ttaagcttga aagtgtgaag 360  
actgcgcac cgcaattgtc atatgaagtc gaggatatat agagttcttc aggggtggaac 420  
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<210> 6509  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-135-Q1-E1-E6  
  
<400> 6509

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cttcttcgtc ctgcgagccg ttggttctgt catgtcttca aggaaattga tggctggtga 180  
tgtgtctggt ccgtttggtg ttttaatacc ggcgattgct aatgcgttgg cgttatcatc 240  
gtcagtttac atctcttgga acgtctctgg tgggtcatgt gaatccagcg gttacgtttg 300  
cgatggctgt tgctggtcgg attagcgttc caaccgctat gttttattgg acttctcaga 360  
tgattgcctc tgttaagggc ttgccttggg tcttaaaggt aaaccgtcaa tggaa 415

<210> 6510  
<211> 394  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6510

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cngnagttac ctctgactc taatgaaagg aaattactgg ccatatgggt ggaatttcga 180  
ctcaaaanta ccgaccggaa gatttgga aaagagtt ttctccgatg taattgctga 240  
aggtttgagg atcaaangaa ttgtaccaag cttatcgtaa gttatacatt gctccaagcg 300  
accttaaaac ggggtgttct tttgcatcaa gtgggtgcagg agtcgaccct gtnacatcna 360  
aattgctggn anttttatcg ccagntgacc aagt 394

<210> 6511  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-135-Q1-E1-F2

<400> 6511

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ctagcttggt cttctgttga ttatttcgaa aaggggggtt gtttggtttc tgggaatcag 240  
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tcagccttct gtgattcttg ctacggctag ctatgatcac accatccgat tctgggaaag 360  
ccgaaactgg gtcgctgtta ccgtaccatt cangtactct gattcgcgat ttaaatangc 420  
ttgagatanc ccaggataa gcattatcta gctgcaagct tggaantcct ca 472



<210> 6512  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-F3

<400> 6512

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 accaagtga gttcaggaga agaagagatg gaaagactga ctacagggca aggatccgctc 180  
 ttatcaacca agacaagaac aagtacaata ctccctaagta tcggttttggt gtccggttta 240  
 ccaacaaaga catagtggca cagattgtat ctgcaagcat tgctggtgac attgttaaag 300  
 cttctgctta cgcacatgaa ctgcctcagt atggtctcac tgttggtctt acaaactatg 360  
 ctgcagctta ctgtactggg ccttcttttg gctcgccgtg ttttaaagat gttggaaatg 420  
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<210> 6513  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-F4

<400> 6513

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 gggttttgga tcagctcctt gcttaaaggc tcttgtttgt gatacatgga ctatggcttt 240  
 aagacaacag agacaaacag tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnga 300  
 acaacatttg gatttggttt caagaagtga agaaaacaaa ggagagattg cctaatactg 360  
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<210> 6514  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-135-Q1-E1-C7

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 tcaacgctgt ggctgctgag gatttgattg tgaaaggaaa cagagttggt ggtgtggtga 180  
 ctaactgggc tcttgtggct cagaaccacc acacacaatc gtgtatggac cctaattgta 240  
 tggaagcgaa gattgtggtt agctcttgtg gtcattgatg tccttttggg gctactggtg 300  
 ttaagangtt gaagagtatt gggatgattg atcatgttcc tgggatgaaa gctttggaca 360  
 tgaacactgc tgangacgct attgtgaagg tgaccagaga aggttgncc tggtaa 416

<210> 6515  
 <211> 403  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-A9

<400> 6515

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 ggaggaaaga ctcaaaattt agggcaaagc aaggagggtg atagtataaa tgttgtaaag 180  
 actaatactt gtttcgtgtg tgatgggaaa gacaattggg ttttggtatg ttacggagag 240  
 gaatgtanta tagctantca tcagagttgt gcatctgatg aacctgattt cgatgaattt 300  
 ggaaatttct attgtcctta ttgttggtat aagcgtgtag ttgtcaagtg tttggagtta 360  
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<210> 6516  
 <211> 465

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-B10  
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 acttanatat antagtgtta tattcttgat taagtaatan agatgaaagg tggaagcatg 180  
 gataaaatta agccgactat tggcgataat ttcactgcaa tttgggtatg caggcatgta 240  
 catcatcacc atggtctcgt tcaaacatgg catggaccat tgggttcttg ctacataccg 300  
 tcatgtcgta gccacggttg tcatggctcc ctttgctctc angttcgaga ggaaaattag 360  
 gcccaagatg acactatnca atattctgga ggcttcttgc tcntggaata ttanaagccc 420  
 ctcatggntc agaaatttgt nccanctaag gattganaaa ccct 465

<210> 6517  
 <211> 514  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-B2  
 <400> 6517

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 nataantttc ttctctctc cccctttcaa gaaaaccaag cggancaatc cttctcaac 120  
 cgggtttatg ggtgacttcn ggaggggatt aagcaagcgt tgattcttgg gttatatcgc 180  
 caagggtttc aacgttgatt catggttgct ttctgatacc ttctctcag acaacgattt 240  
 gctcgcaaga gctctccata ccaccgtcac aagccccctca tactctcact cttctcttg 300  
 ctttcttcga ttctccgct gtttctcacc cttcttcac taacacactc tctctaacg 360  
 tcccgggngc ttctgattca naaatcaacg gcggaagagc taaacnggaa aagttaactg 420  
 ccntcttaac gacnggtnaa gccgcaaag ccgccggcgc tcgtgctttc aaggaaaatc 480  
 tcaagactac ttcaaaaac gggnggggttc cgtc 514

<210> 6518  
<211> 481  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-134-Q1-E1-B3

<400> 6518

tactttgncc cggcccggt caaagncaac cgggncgnc ccacgcgtcc nagagaagaa 60  
aggttttgca tttgcaacct ttctcaaatt gggttctgtg catttccttg cactttggnt 120  
aataggaact aaatctcttt ctctgggttca tcaatggcgg atcaaacgaa gaagagatac 180  
gttacaagcg aggatttgaa aaaacacaac aaacctggag atttatggat ttcgattcaa 240  
ggtaaagttt acgacgtttc cgattgggtt aaatctcatc ccggaggcga agcagcgatt 300  
ctcaatctcg ccggccaaga cgtcaccgac gcgttcacgc cttaccatcc cggaaccgca 360  
tggcaccact tagaaaagct tcacaatggc tatcacgtga gagaccacca cgtgtcagac 420  
gtctcacgtg actaccgtcg tttagccgcc gagttctcca aacgcggcct cttcgacaaa 480  
a 481

<210> 6519  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-134-Q1-E1-B5

<400> 6519

gtcanagaat tcccgggccc acccacgcgt ccnccacgc gtcgggcgga tttagatggg 60  
gatggaacca tcgatttccc tgagttcttg tgcgtaatgg ctaagaatca aggtcatgat 120  
caagcgccgc gtcacactaa aaaaacaatg gcggataagc tcactgacga tcagattaca 180  
gagtacaggg aatctttcag gttattcgac aagaatgggtg atggttccat tacgaaaaag 240  
gagctccgta ccgtgatgtt ttccctcggg aaaaaccgga caaaagctga tcttcaggac 300  
atgatgaacg aagtggattt agatgggtgat ggaaccatcg atttcctga gttctgttac 360  
ctaattggcta agaataaggg tcatgatcaa gcgccgcgtc aactaaaaa aacaatgggtg 420  
ggattatcag ctactgacg atcagatctt agaattcagg 460

<210> 6520  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-B6

<400> 6520

aattccccggg ncgacccacg cgctccnccca cgcgtccgat ggcaccatca atgaaagaaa 60  
 ttttttctaa agataatttc aagaaaaaca agaaacttgt tttgctatcc gccgccgtag 120  
 ctttgctctt cgtagccgcc gtcgccggaa tctctgccgg agcttcaaaa gccaacgaaa 180  
 aacgaactct atcnccgctg tctcacgccg tgctaagatc ctcatgcagc tccacgcgtt 240  
 accctgagct ctgtatctct gccgtggtaa ctgccggcgg cgtcgagcta acgtcgcaaa 300  
 aagatgtcat cgaggcatcg gtgaacctaa caataaccgc ccgtggagca caattacttt 360  
 caccgtgaaa gaanctgac aagaaganga aagggactga cgccgcgcga gaaagacggn 420  
 gncttcaatg aacggtttgg anactattga ttgagaacct tgggacg 467

<210> 6521  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-B8

<400> 6521

aggtaccnag tcaaagaatt cccgggncga cccacgcgtc cncggacgcy tggggcttac 60  
 gaacaagaaa aaaagaagaa tcttttagcca ctttgagat caaaagatga acatcgctca 120  
 cactatcttc ggcgttttcg gaaatgcaac tgctctgttt cttttcttgg ctcttctgat 180  
 aacattcaag agaatcatca agaacaaatc cactgaacaa ttctctggta tcccttatcc 240  
 aatgactctc ctcaactgtc tctctctgctc ttggtatgga cttccctttg tgtcaaaaaga 300  
 caacacactt gtgaagcaca atcaatggca caggagcagt gatcgaaaca gtctacgtgt 360  
 taatctttct tttctacgca ccaaagaang gagaaaatta agatcttttg tatcctctcc 420  
 ttgcgttttg ggctgtattc gcaacagtag ctctcgtctc tctcctttgc tcctcaa 477

<210> 6522  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-B9  
  
 <400> 6522

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cacgggncga cccacgcgtc cgtccattc ataattttga ctccactttc caaaaaaac 60
aaaaaaaaat agatactaata ataaaaaatt ctcaaataa aaatttcaga tttcagaaat 120
cgccatggct tcagtgactc taggttcattg gattgtttgt nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngt cctataactc ttactaaacc 240
catctccttt cgatnaaaac gcaccgtttc atcatcttct tcaatcgttt cttcttccgt 300
tgttacaaaa gaagacaatc tacgccaatc tgaaccatcc tctttcgatt tcatgtcgta 360
catcatcacc aaagccgaat tagtcaacaa agcttttagaa tcaagctggt tcctctccgg 420
tgangccact caagattcaa ngaagggg 448
  
```

<210> 6523  
 <211> 464  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-C3  
  
 <400> 6523

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cgggtcaaagc anaccggggn cgaccacgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn naaaagctga acacaaagat ctattctttc actaacacat taccagtttc 120
tgcatattgta ttanacctt ttctaaaact tttaaccatt ctttctccat tcccagttct 180
tagaaagagt caagagcaat gaggaagctt ttcttgtag ggtttatagt tgcaggactg 240
gttcttggga atgaggcaaa tgggtattta gagttcaatg tcaactgaatt agatcgcant 300
gaggatttaa gagtttggtt tcgccaatt cagttccaat ttcaatcnan naatgggttg 360
tctcacactt aacagaggag ctggttctaa angagctggt tgtttggatg gtacattgnc 420
tgggatatca cttacatccg tggacatgga tctggagcca aata 464
  
```

<210> 6524  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-C4  
  
 <400> 6524

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tcattggccg ncccggtcaa acnaccnggn ccgaccnacg cgctccngaaa gaaaagccnc   60
nattttncnc aaggcaannc cncnctcnct gcctcanctc ataaacccat tacaccaaaa  120
cctcatcgta nagagagaaa cacaccaacc attgttacac tctaagagaa gagaagagag  180
aaggaaaaat ggacgggtga tcaccaaagt ttgtgttgcc ggagacattc gacggcgtga  240
ggatggagat cacaggccaa ctaggcatga tctgggagct tgtaaaagca ccaatgattg  300
tccctcttct tcaattagct gtttacatct gtttgcttat gtctgtcatg cttttatggg  360
gagaggggtt acatgggaat cgctcatcgtc ctngtcaaaa actcttctgg aaaaaaccaa  420
gacaaacgtt acaagttcga agcccantca cgaatgatga agaacttggg tagctccaan  480
tttcccc                                         487
  
```

<210> 6525  
 <211> 432  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-D1  
  
 <400> 6525

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acgcgtccgc ggaattgttt ttgcagaaag tctctcatct gaactcagaa aatctccgag   60
ttcgtatatc ttncnccgtt gagcaatggn gttggtcatg cacacataca agggaaacan  120
aggtgccaat aaggcactta ttgctgcaga gtatgcgggt gtgaagatcg aggagtccgc  180
anactttcag atgggctgca ctaacaagtc acctgagttc cttaagatga accctattgg  240
naangttcct gtgcttgaga ctctgaagg tcccatatct gagaagcatg ccattgcccc  300
atatgtganc cgtangaatg gtgacaactc ctttgaatgg atcctccctt attggaatac  360
gctcacattn accantgggn tcgaatttcn ccncattggg agattganng ctaacatgtt  420
  
```

taaagtgggtt tg

432

<210> 6526  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-134-Q1-E1-D10  
  
<400> 6526

ctgttcatca aagaaaacga aaccatttc tcaaatcca aaattttcaa aaactcaaaa 60  
ctcatcatgg gtttcatttc ttcttcatca ccagtagaag agtctcatta ccatacacac 120  
aagatcttcc ttttctccaa ctacatcctt ctgggcgtg cttcaagttg tatcttctc 180  
acactctctc tccgtctaata ccttccatc tgcggattcc tctcctcct cctccacgcc 240  
accacaatcg ccgcccagc ctccaggtgc gctgctgcat cttgcggaag aaaccgttgg 300  
tacgccgtc acatggttgc aactgtgctc actgctatat tccaaggctc tgtctctgtt 360  
ctcatcttca ccaacacgtc taaattcctc cggaagtcct aaatcctaag gtgg 414

<210> 6527  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-134-Q1-E1-D2  
  
<400> 6527

acgcgtccgg agaaagtgat gttcaacttc ttatctctta atccttcatt tgctctgtca 60  
cacattgaag cctatcttcg gttgcagttt gttaagtttt catgggaagc gttgtctttg 120  
gagtgttctg aagttgactt taatcctgaa agaagaagga tatgctttta ctgaagttat 180  
catgggaagc actttttgtg gagtttacag gagtgtctat gccgttgcag tattcgagga 240  
tcgctttgat ctgccagtcg ttccttgta cctttttcgc ttttgcaagt tctttcttac 300  
ttgccttgct tttctctcgt tcatgtanta cttgatgcaa agtcttgaaa ctttcccgat 360  
attggaccaa actccttttc attcatgcn tttaaggact actaagttat ggaactcccc 420  
ctgatgtaga ang 433



<210> 6528  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-D3  
 <400> 6528

cccgggtcaa ganatcccg ggcgcaccca cgcgtccngc tcggcattga cattgttatc 60  
 gaggggaacag gagtgtttgt tgatgggcca ggagcagggg agcatatcca agccggagcc 120  
 tcgaaagtta tcatcactgc accagccaaa ggtgctgata tccctaccta tggttatggga 180  
 gtcaatgagc aagactatgg tcacgatgtc gctaacatta ttagcaatgc atcttgcacc 240  
 accaactgtt tggcaccttt tgctaaagtc ttggatgaag aatttggaat tgtcaagggg 300  
 acaatgacaa ccacacactc ctacaccgga gaccaaaggc ttctagatgc atcacacagg 360  
 gacctaangc ttcaagaacc gcaacactga acatantgcc caacaacaca aggagcaacc 420  
 aaaggcgtgt cattaatggt tgccccaact gaanggtaaa cttaacgg 468

<210> 6529  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-134-Q1-E1-A8  
 <400> 6529

acgcgtccgg tttgtttctt tgctctgagg tatcttcgtt tganacaagg cgaaatcgat 60  
 cntctttctt ntcgtcttca nccccttgcg ttttccatct ccatcgtcng cngaaaccat 120  
 ttgatcgatc tctcangtta cttagaaggg cacaagaagc cgatgggatc agattggacc 180  
 aaagacatgg gaaggctcga gtganagttg gaagagtttg gcgtcatgct catgatggat 240  
 ctcatcacnt tgttgaatgg aatgtnagca tcagtcttct cntcactgt ctctcttctt 300  
 aacgtcttga tgataactct gatattgtcg ccacagatac cattanaaac actgtttatg 360  
 tgaaagccaa ggaatgtgga gatcggctct ccgggtgggag gaanttgcc aacntattgg 420  
 ggaaaacact tttgccnc 438

<210> 6530  
 <211> 393  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-133-Q1-E1-G5

<400> 6530

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gtgaggtaca ctctggaag tttcctctgt cctggaggac aaccattccc tcaccgcaac 120
ttctctgaag aagtctctgt tcttgatggc cactttgcta ancttggttt aagcagtgtt 180
gcctacttga tgggcaatga cgatgaaacc aatgaaatgg catgtttact ctgcttcttc 240
tgccaacagc aacaacaaga acaatgtcta nacgcttgag atgtgtatga ctggtctaga 300
caaagacaag gcctctgtct tctacaagaa cgagtcaagc tctgctggtt ctatgactga 360
taactctggc atcagaaagg atactgcctc ant 393
```

<210> 6531  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-133-Q1-E1-H11

<400> 6531

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ggtcgaccna cccgtccgaa tatttntctc tactcaantc actcanactc nnaaaagcgg 60
tagcaatgtc agccaccgcc gccgcncnt cctcgatcgc cgttgccacc aactctctca 120
ngaacgtgac tctgtcttcc agatcgcccc ttccatcagc catctccgtg gctttccctt 180
cccgtggacg caatactctt cagcgacgcc tcgttctcgt ttcttgagcgt actggagacg 240
gatctaagcc tacgattctc gtggcggaga agctcgggtga cgctgggtatt aagcttttgg 300
aggatgtcgc gaatgtcgac tggttcgtata acatgactcc tgaggagctc aacattaaga 360
tcncgctctg tgacgccttg atcgtgagga gtgggactaa gggtggccgt gaggtgttcg 420
aatcgtctca cgggacggct caaag 445
```

<210> 6532

<211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-133-Q1-E1-H2  
  
 <400> 6532

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aaantccagg gtcgacccac nntcaggnt aaggatgata acggaagcg aagtttcctc   60
ntacccttcc ttentcttca aacttccgcy tctctgtccc gtctcaatca caaatcatcc  120
ntcgagattg cgaaagctct tctctttaca aagggaagct tcttctctgt ttcgacaaag  180
accangagga acacttgtaa agccaaatca tggaatctcg gtcttggtat caactctaga  240
agctctgagg cttcggtttt tgatccgttg gggatcaatc cagatgaaac ttctgggttta  300
agtagcattt gggaaanctt tgtgaagtcn tttgtcacca tcatttgaaa gctcttccgg  360
taacaagcga agataaagcc gtntccngg tagaagcgtg gcagctgcta tttgaagaca  420
gttccattga ttttggagaa ttcttcaaag ggcca                               455
  
```

<210> 6533  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-133-Q1-E1-H3  
  
 <400> 6533

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atacacaagc cgtgaagggtg cagagaangc tgcgcaagag ctctccaaca ggctagtcac   60
caacggtcag aggctaaaac tcacatgggg aagacccaaa cctgatcaag atgggtgcaaa  120
ccaacagggc ggtgtggctc atagtgggtt actacctcga gccgttatat ctacgcagca  180
caatcaaccc ccaccaatgc agcagtacta tatgcaccca ccaccagcta accaagacaa  240
accttattac ccatcaatgg acccacagag aatgggtgca gtcatttcaa cccaagaggc  300
tggtggttca agcactgaga acaacggagc ttcattttct tctacatga tgctccaca  360
ccaagtcata ccancaccac catatggata tatgccatcg ccttancaag cagcagtatc  420
c                                                                    421
  
```

<210> 6534

<211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-133-Q1-E1-H4  
  
 <400> 6534

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acgccgtcag catgccatgt aacgggccag ggtncacggn nccatccngt cttgngacag   60
tctgtttcgt ctccgggtggc ttttcatagc cttgggtgaag ctgtagctac agtttcaaaa 120
gctttctcaat ctactagtgc tgctattgtg cttgcttcaa gtgtttctga tgaatctaag 180
cttagttctg tatcagcttt agcttcaggc atagtacttg gtttatttga agatggtagg 240
tataagtctg aatcaaagaa accatctttg aaagctgttg atattattgg atttggaact 300
ggggctgagg tagaaaagaa gctgaagtat gctgaagatg tttcttacgg tgtaattttc 360
gggagagagc tcattaattc tcctgccaat gtgcttactc ctgctgtact agctgaggaa 420
gcagcaaagg tggcttctac gtacagtgat gtcttcactg caaacatc               468
  
```

<210> 6535  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-133-Q1-E1-H5  
  
 <400> 6535

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gggcggacgc gtgggcggtg gtggacatcc gttagatgga aaaatgggcg gcggaggtgg   60
cgggcccaac ggtaataaag gaggtggcgg agtccanatg aacggaggtc ccaacggtgn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncctccc 180
gccaggtttc cggccaatgg gaggcggtgg tgggtggaggg ggaggacctc anagcatgag 240
tatgccaatg ggcggtgcaa tgggtggtcc aatgggaagt ctaccacaaa tgggtggtgg 300
tcccgggtcca atgagtaata atatgcaggc ggttcaagga ttaccgcaa tgggtccang 360
angtgggtggt ggcggtggcc catccgcana agcaccacca gggatatttc               410
  
```

<210> 6536  
 <211> 417  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-133-Q1-E1-H6

<400> 6536

gacttcaaca atgtaactta tatcaagggt gaatacgaaa aggacggaaa attcgaaatt 60  
cgtgaacacg ggactaatcg cgggcagcta aaagagtttt cagtggatta tccgaatgaa 120  
tatatcacag ccgttggtgg aagctacgac actgttttcg gttacggatc agcgttgatn 180  
aagtcattac tcttcaaaac ctcttatgga angaacctct ccaatccttg gtcacacgac 240  
attactangg aatccagctg ggaaagaatt catgctcgag tccaaatatg gaggaagct 300  
tcttggtttc catgngacgt tctggtgaag ctctgatgc cantggacct cacttctttg 360  
ctgtgaactc ttctcttaag cacnttaaan cgcgaagggt gggaatggag ggaantg 417

<210> 6537

<211> 415

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-133-Q1-E1-H7

<400> 6537

caaactcttg gggtctcttc tgattgaaaa tgagcttatc atcgccaacc agtgcttgta 60  
gctcgtccag atgttactcc tcgggattat cgtttccgat tggatttgga tcgaatccca 120  
tcaatgtggg attggttgt tacccaaaaa gatacagtat tgctgctcgg aagtctgtag 180  
tggcttgctc ctctctctct tccgatccac ttttggttaa ggctgcaaaa gggcaagcca 240  
taagtcgtcc tccagcttgg atgatgaggc aagcaggaag gtatatggct gtttaccaaa 300  
agctcgccaa gaaacatccg tccttcagag agagatcaga gaacactgat ctaatagtgg 360  
aaatctcttt gcaagccttg gcaaagcatt caagaccaga cgggtgtcatc aattt 415

<210> 6538

<211> 415

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-133-Q1-E1-H8

<400> 6538

caatcgtaa tcgttgaatc cgattcgatt tgcctctctt ccggcgtagc ttcgacggtg 60  
gcaatggcgg ctccgggatc ggttcagaaa ggagatgaag agtggcggtc gattctttca 120  
cctgaacagt ttcggattct tcgtcaaaaag ggcactgaat atccaggaac aggggaatat 180  
gtcaacttcg acaaggaagg agtttacggt tgtgtaggat gcaatgctcc tctttataaa 240  
tccaccacaa agttcaacgc tggttgtggc tggccagctt tctttgaagg aatccccggt 300  
gccattacc gaacgacaga cccagatggg agaagaatag aagatcaact gtgcaacatg 360  
tggtggacat cttgggtcat gttttcaaag gagaaggttt cgctactcca accgg 415

<210> 6539  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-133-Q1-E1-H9  
<400> 6539

ctgtttacgc ctgcccggta ccgntccaaa attcccnggt cgaccacgc gtccggattt 60  
cgaaatggag gaaggctcgtg acgacgagta ttgtagtttt tctaattccg gcgatcgcca 120  
cgggtggattg agcggttggt ttttcttga tcatgttggc caagttttgc tttctcgaaa 180  
tcatgatggt ttgtcctgga aatgtttgga ttcttcagat tgtgagggaa caacttgttt 240  
gggaattata atttgcgaga attccgaaac tgagatcaaa ttctctgata tttatgctgt 300  
ggagtttggt agctatggct tgggtcatag tccaaagtta ggacttagac atgccaaaga 360  
atgtttccgg gaacgcttgt taaatactca agagatgtat cggttcactg tccacggatt 420  
tcaaagttca ccaaagagc cttgtctttg ggaaccttgc tgcattcact tttggacata 480

<210> 6540  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-134-Q1-E1-A1  
<400> 6540

acgcgtgggc ggacgcgtgg ggtcgtctaa ggacaagaaa ctatcgaagc caacangtgg 60

tcgtactggg ggtatccgta cactttccga tctgaaccga agatcagaac ctgattccga 120  
tagtgactcc gatggacctc aagaatactt caccgggtggc gaaaaaagtg gtatgcttgt 180  
tcaagatcct acaaaagaac caaaacacga tgatgttgat gaagatattt aatcaagcaa 240  
gacagctagg agctgtggaa ggacctcttg agcatccttc gagttctaga agctttacag 300  
gaacaggaag attgctttct gggagaaagt gtgcaacggc tcttcaacag cctgagcctg 360  
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ggga 424

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gctacagatt ctccctttgcy tgggtcaagaa tccttccaaa aggaaagagg agtangggga 300  
atcaacgaan atggtattaa ctactacagc ggtctcatag atggcctgat cgcaaggaac 360  
ataacgcctt tcgttacact ctttactgg gaccttcctc aatcattgca agatgaatat 420  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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atctggttgc agcatttcaa ggatggtcaa tgggattcac cggttattgt tgatgaagag 360  
ccaggagttc caatgtataa cccctgtctt gttcaaactt ccatctcatg anctccttan 420  
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<210> 6543  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-134-Q1-E1-A7

<400> 6543

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ttgtagata ctccgaatct tgtatacttg aagtttactg atactgttgc aggcaagtat 180  
ccgaaagtga atttggttc ccttggtgaa gctcatatcg atcttgcgtt gttgaagcct 240  
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tttataatgc gtatatgcaa tgtgaagact ctttatctat ctgccaacac tcttcaggta 360  
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<210> 6544  
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<212> DNA  
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<223> Clone ID: LIB24-133-Q1-E1-G4

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 tcttcttcca atctttcttt ctctattgaa agacgaattt cctgatgtac gcttaaacad 360  
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<210> 6545  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-133-Q1-E1-E4

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 cttgatgttc atgtcttgaa acntaacaaa gtattgatct ttccttttaa gtaanaatt 180  
 tgggggttac acaacttcgt ctagatggag caaganaaaa gcttggatcc acaactatgg 240  
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 gctcaaggcc acacagagca ngntcacgcg cctcctgatt ttcacgcgcc gcgcgttcca 360  
 cntcttatnn gctgtcgtgt cgtcnccgtg aaagttcctc gccgacgctg anacanacga 420  
 aagtttttgc taaaaattac gcntttgcca 450

<210> 6546  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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ccttttactc taacaaggag atcttctctc gtgaactcat cagtaactct tctgatgctt 180  
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 tcttcattca catcattccc gacaagacta ataacacctt gaccattatt gatagtggta 300  
 ntgggcatga ccaaangctg anttgggtcaa naaaccttgg gnacaantgc aagatctggg 360  
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 a 421

<210> 6547  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 ccattcttgt ttgtagaaaa aaaccattt tttatttggg ttttcattht gattttcccg 180  
 ggaaagtgtt aatttttang ttttttgagg gagattgaaa aagttcgata aaaatgtggg 240  
 gagccgccgc agaaccagca gattcttatt acctgattcg tcctgagtgc actgatgtcc 300  
 ccaataccaa attcaangat caaacctggg taaaactcna agtgtaagaa aatggcaagc 360  
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 ggggga 426

<210> 6548  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6548

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accaatcgat tttccaataa acaacaatct ggatctgggt tttctacaaa atctaagaaa 180  
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 actcttcctt ctccaagatt taagaaaacg aggtttctaa gaagaaatct aagcttccaa 300  
 aaaagaattt gaaagacact aatgggtgtg atcatgcctc tgtaccacgg aaagcttcgt 360  
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 gac 423

<210> 6549  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gcatcttcat atacctcggt tcaatcctgc ggaaccctag ttgctctgaa ttgtgggttg 180  
 ctactgtgat aagtcttca gtggttagatt aggaagcacc accaatggag attgtgtaag 240  
 acatattcat tacagctctc ttttaaggat tatgggggtct gtttgcgtgtg tggctgcaaa 300  
 ggacagaaat gttcccagtg gagctattga taattcagtg tgttcaccat cgtggagttt 360  
 tcgacgggac aacaagaggg gtgtagctga tgagattaaa gattcatcna atcataat 418

<210> 6550  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 tgaacgccat cgggaaattg aacttcacat tgtccccagc atcatagtag cctccgggtca 180

agtcacctg caactcatac cgtgttattc agatggattt actatgcttt tactacttga 240  
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gctagacctc catgagagtt gttggtcact agggaggcga ccaagaccgc tgaccttga 360  
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gt 422

<210> 6551  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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gggactattn acggaaccat tttagccaca tngaaagatg ttccaagagt ggananaaat 180  
gtggctcttc caggacttat tagaactctg aacatgatgg gaacccatgg gctgactttt 240  
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gacagatttt tacaatggtg ctattgggtg ttttgctgct ggagcttctg tgcttggtta 360  
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<210> 6552  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
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<400> 6552

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ccacaaagat ttgatggtat cgataagaac gatagatatg ctaatcgtaa taccgtgttc 180  
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tgtgttttca acatgaacag cattatacgg ttatgaacct ccaataatta gtagatcaca 300  
ngaagccaag tcttttatct aaagctctgt ggtgggatca nnnaaagaaa gaattccaan 360  
gctaagaaag agtcggacaa naaggaaatc aggcangcat actgactcaa ctgtncctgt 420

<210> 6553  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 6553

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aattactcca gagttcttct ttcacaggaa tgatgtttat ggttgggcta caagatgttt 180  
gaaaaaatgt cgaggtacct ttctctataa cggaatctgg cttggtgggt cgtatggagc 240  
tgtgacttgt gtccctgcga acgttgaata catgctcaag actaacttca agaacttccc 300  
aaaagggtgcg tttttcaaag aacggttcaa tgatctgctc gaggatggta ttttcaatgc 360  
tgatgctgag tcttgggaagg agcaacgacg gatnatcatt accgaaatgc 410

<210> 6554  
<211> 412  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-133-Q1-E1-F8  
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agaaaagttg attaagaaac caaaaaaacg gtatgcaacg tggacggagg agctgaattt 300  
ggatactttg gctgagtcgg gtccgcaatg gtgggcgggt agggtttcga gacttcgtgg 360  
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<210> 6555  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 gttcgatgag ctttatcggc caagctgggc tatggatcat tgtgtcaacg aaggcgaagt 240  
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 gtttggtaaa gtctctatcc agattaagct tggtgagggg gattcagcag gaacagtcac 360  
 tgctttctac atgtcttcag atggtccgaa ccacaacgaa ttcgattttg agttcttagg 420  
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 aac 483

<210> 6556  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-133-Q1-E1-G1

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 gactatcaaa gtcgtgcttc ctgaaggatc aaaggaccct tctgctgttt tgccctttac 180  
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 tgtgttgcaa aaagataacg tagttccac tcacaacgta cccttcagg tgtactatac 300  
 attcaaacca atatacatgc tagcggaacc attcatgctt gtatcggtt tcttcttaac 360  
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<210> 6557  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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ccaaaatgga actacgatgg atctagcacc gatcaagctg ccggagatga tagtgaagtc  240
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gtaaaaatct tcgatnatcc caatgtgaan gctgaagagc cttgggtttg ggatagagca  420
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <400> 6558

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ctcgaaaaat ggctcagatt cagcatcagg gtcaaaaatgc caatggtggt gtagctgttc  300
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<211> 419  
<212> DNA  
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<223> Clone ID: LIB24-133-Q1-E1-G3

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atactgttga attggctagg agaatcgaga aacttgggtg accagctctt gctgtacatg 180  
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<223> Clone ID: LIB24-133-Q1-E1-E11

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gccggagctc cgactgcgtg accaccggtt catagtctct cttgattatt ccaaaagtgc 180  
tcccaaaatt accgtctttg ctcgagagat cgttgcgggt gggaaagagg agcaagcaat 240  
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tagtggatgg attcaaagag cttgtgaaga gtttcgagtg gtcttactcg atcaacgagg 360  
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<210> 6561  
<211> 493  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-F4



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cgatgaacaa tgcagcctac atggaggagt gtgtgataat ggggtttgcg agttccgttg 180

ctctgattat gcaggctaca catgtcagaa cagctctaaa ctagttacaa gtttattggg 240

gtgcaaagat gtattggana aagacatgtc agggcaacat tgtgctcaa gagagcctag 300

cattcttcan cagcttgagg aggttggtgt aatgcccaac tacaataggc tgtttccggg 360

cggggctcgg gaagttatit aacattttcg gtaacagtta ttgtgatgaa gcacctaaac 420

anactaagcc tgttggnat cnatccagan gtgttganat cnattggcna ngacacgact 480

ancgaggttt gcc 493

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<211> 479

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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ggggaactta actcttgctt ctgcatcaag gccgttnnca accccaaant ctgtaatgnt 420

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<210> 6563

<211> 464

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-131-Q1-E1-G4

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agttancnat tntaggagt atnggggaca acgaanagca aacg 464

<210> 6564  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-131-Q1-E1-G6

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atgttggaag aagctgtgga gtatgtgaag gctcttcaaa gccagatcca ggaattgaca 180  
gagcagcaga agagatgcaa atgcaaacct aaagaagaac aataatgtat cctttaggat 240  
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<210> 6565  
<211> 403  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-131-Q1-E1-G7

<400> 6565

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gcttcaactt tttcatggat gaagaagacc tttcctcttc ttcttctcac cacaaccatc 120  
acaancacaa cantcctaact acttactact ctctctttcac tactcncacc caataccatc 180  
ccgccacatc atcaaccctt tctctccaccg ncgcanccgc agcttttagcc tcgccttagt 240  
cctcctccgg gcaccataan gacccttccg cgttctccat acctcaaact cctccgtcct 300  
tcgactttctc agncaatgcc aagtgggcaa nactcgggtcc ttctntgaagc ggcacgtgnc 360  
ttctccgggc aaaagacact gcacgggtgcg caanaaatcc cta 403

<210> 6566  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-131-Q1-E1-G8

<400> 6566

acgcgtccgg tgactcanaa cgtcctgtgc atccttcacc tccttctcca ccagaggaaa 60  
ctctcccacc tccaagcca agtcagatc ccttaccttc taattcgtct tcaccaccaa 120  
nattgcttcc accatcgtca gttgtatccc cgccttcgcc tcctcgaaaa tctgtgtcag 180  
gtcctgataa tccatctcca aacaacccca ctctgtgac agataattcc agcagttctg 240  
gtattagtan agcggctggt gtgggtgtaa gtattggagt ggcccttggt ctgcttactc 300  
tcattggagt tgttgtctgt tgcttaaaga aacgganaaa gaggtctca ancattgggtg 360  
gtggctatgt tatgccaaca cctanggnat cctcctcccc aagatcagat tcagcgcttc 420  
tgaagacgca gtcacccgca cctccnagtg ggaaatcggt ctagca 466

<210> 6567  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-131-Q1-E1-G9

<400> 6567

ttttgtcttc aactacagct ccagagaagt ttcttcgtcg tctcgtctct ccttgaaaac 60  
ctccggcgac gaagaaaact gggtttcacg ttccggctcg aaatctctca gtttggtgtt 120  
ctctggagct cttgctctcg gtttatctct atcaggcgctg gggtttgcag atgcaaaaagt 180  
tggtgttaac aaaccagaat tgcttcctaa agagttcact tctgttatag atgttgctga 240  
tttctctct aatggtcagg aagaagagaa ttgctcaaga aatcgcta atctgagaaaag 300  
atacaggatt caagttgaga gtcttggtc aaaactatcc cgttaccctt gggactagca 360  
atcaaaagat ttctgggnag gtggatgaat ancacaaatt gggtttggcc gctgancccg 420  
a 421

<210> 6568

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-H10

<400> 6568

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gaattttttg atatgagaat gaaatcatct gctgctagaa ttaacgcggt cacacatggt 120  
ggtgatgctg ctgcggaggt tactgctata gagtttgatg acagtgaagg tcttcaagta 180  
gctgtcggga gtancgcggg aaaggtattc atatacgact tgcgtacttc aactcccata 240  
agagtgaagg atcacatgta cgagagccca attttgaata ttaagtggca acggactctt 300  
aataactcaac ancctaagtt gattactanc gacaaacaca ttgttacaat atgggatcca 360  
aacaccggga ganggtatga ccaagcantg aaccgactca nggaggaatn acnagcattt 420  
gtgtgggtcc ggtggna 437

<210> 6569

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-H6

<400> 6569

gggcgacgc gtggggtgaa acatggggaa ggaagttatg gtgagcgatt acggtgacga 60

cgacggagaa gacgccggcg gcggcgatga atataggatt ccggaatggg aaattgggtt 120

acccaacgga gatgatttga ctccgttatc tcaatatcta gtcccgtcga ttctcgcgtt 180

agctttcagc atgatcccag aacgaagccg tacaattcac gacgtcaatc gcgcgtcgca 240

aatcacgctc tcttcgttga gaagcagtac caatgcttcg tctgtgatgg aggaggtcgt 300

ggatcgagtt gaatcgagtg ttccaggatc agatccgaag aaacagaaga aatcggatgg 360

tggtgaagca acggcgggtg aggattccac ggcggaggaa ngagactccg ggcctgaaga 420

cgcntctggg gaaagacatc gaaacgaacc g 451

<210> 6570

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-H7

<400> 6570

acgcgtccgg tacctgaagg cttaacatta gccaaaccag ctgcatcgat cgggtattgtg - 60

cagttggatt gcgtcttctc tcatcttctc cttcctgctc gtcttctcat taccacccat 120

cttctggtct cggaagccat ctccccctta gacgaccaa gagccaagtg gttcgtgtca 180

aggtagatga aaatgtagcc gagacagagc caccgaaatg gtgggagagg aatgctccaa 240

acatgggtcga tattcattct actgaagagt tcttgagcgc ttttaagcggg gcgggtgaaa 300

gattagttat tgtagagttt tatggaactt ggtgtgcttc ttgcagagca ttgttcccaa 360

ngctttgcaa ngacagcggg gggacatccc cgataatagt gttccttaaa gttaaacttt 420

ggatgagnaa taaaccgatg tgcaaggaat tttgaacngt gagaagtg 468

<210> 6571

<211> 438

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-132-Q1-E1-A10

<400> 6571

acgcgctccga tcgtgatttt gcatacccat caggtttcag aaaaactgaa ataatgggtgt 60  
ataagcgcaa gtcaatggag aagaaaaagg aaggcatggg ttctactatt gatcaaaacc 120  
tgagctttta gaatattatg aaagatgttg cactctttgg ttcttcgcat atgacatgga 180  
aggataagaa agcactggag gataagaaag tgactgcact tgggtggaaag gcacaaaaga 240  
tgcataagct accgctgagt gtagctcgag tgcagatgaa gaaacagaaa gatagagaag 300  
agaagatgtt agaacagaat gtgattcttg gcagatttgg gtgggggtgg aagtngcagt 360  
aggaaacccc gcagagagaa agcctacgcc agaagagaga gtattgaagt caactggnag 420  
gggattttca aaggccgg 438

<210> 6572

<211> 412

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-132-Q1-E1-A11

<400> 6572

atattcacga ttgtgttccc gtgaaacgga atgctttatc gtcgttggga ggataactcg 60  
atggagatgg aatatcgata ttcgagtctc gagatatttg gattgatcat tgtacgttag 120  
agaaatgtta cgatgggctt attgatgcgg tgaatggatc cacggatata acgatttcga 180  
atagttacat gttgaatcat aatgaagtca tgcttttggg ccatagtgat gagtattccg 240  
gtgatcggga tatgcgagtt acgatcgct ttaactatct tggatgaagga cttgtccaaa 300  
gaatgccaaag gtgtaggcat ggatattttc acatagtga taacatttat agagactgga 360  
agatgtgtgc tattgggtgga agtgctaata caacgatctt tagcnaagga aa 412

<210> 6573

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-132-Q1-E1-A3

<400> 6573

cgcnngaatt cccaggtcga cccacgcgtc cgaaaaaat gaaatgatat ttccagttgt 60  
 acgctcttct cttccttata tcttccgctt cacttcacac caaatcacc acctctcaca 120  
 aaccctagtt cctcctctct ctcatttctc ggagatattc accagagcaa taaccatgga 180  
 cgctaaagaa acctctgcc aagatttgaa aagaccgaga gaagaggatg ataacggcgg 240  
 cgccgctacc atggagacgg agaaccgaga tcagaanaag gaacctgctt gtttctccac 300  
 tgttattcct ggggtggttct ctgaaatgag tcntatgtgg ccaggagagg cacactcatt 360  
 ganggttgag aaagttttgt ttcaaggaa atcagattat canggatggg tattgttttc 420  
 cagtctgcaa canntgcgaa aanttttggg tttgggntgg agnagtccca anctacgggg 480  
 gagagatnaa tgtgcc 496

<210> 6574  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-132-Q1-E1-A5  
 <400> 6574

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 caaggatggg aagacatgtg tgttttggga tgtggaggat taccatcc cagctgatct 120  
 ccacctcgt tcgatccggc ggagaatcgt aaaggatgtg aagaaatatg gttgtgatgc 180  
 ggaggtgtcg attcatgctt atgctaata taatacgggc tcggttaaca tgaggcgtca 240  
 attttcggct gctggaatca aattggaagt gttcacccaa gcaggggata aatatgcgag 300  
 acattgttcc ttgtatggg acattatgct gtgggtcactg gaaaatcctc caccatcaaa 360  
 tattattgtc atcgcaaaaa taatcgatga cgacttggct gatcgtattg ggatgtttga 420  
 ctaacgtctg gtcataaggg cttcccaaat cccaagttaa gccaaaatgg gtaaaacg 478

<210> 6575  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-131-Q1-E1-F3

<400> 6575

caacaaaaaa ttaaggttct tttttgcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntctctg tcttgcttct tctttaccct 120  
tttcttggtt ccaatcaaat cctctaaagt ttcgttcttt gttctaagtt ttctgaagga 180  
gtgatatttg tttgtggtgt ggtagagaa atgaatcgga gacagcaagt gaaacgtaga 240  
gtaggtaa atgaagttgg cagaacaatt ggagaacgaa cgtttgcnna agttaagttt 300  
gctaganact cctgaaactg gagancctgt tgctctcang aatcttgata aaagaganag 360  
ntcctcaagc atnaagaggg ctgaacagat taggnangag ngatcgncna ccaggaagtt 420  
gntagaacat 430

<210> 6576

<211> 471

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-B5

<400> 6576

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caacacaaat cacacaaaag atcaaattga agcctaagaa gaangcaaaa agtgagaagc 120  
aatggctacc atgttgaagg tctctcttgt attgtcattg ttaggttttc tggatgatgc 180  
tgtcgtgact ccatcgggcg cgaaccatt caggaagagc gtagttctcg gagggaagtc 240  
aggcgttcca aacattcgga ccaacagga aattcaacaa cttggaangt actgcgtgga 300  
ncaattcant caacaagcac agaacgagca aggaannata ngatccattg cgaanacaga 360  
cacggcaa attcgaatcca ttgcaattta ccgangtagt gtctgcctc agaaacaggt 420  
cctcgtgga ctcanantac gtanctaaan ggattgaagg tcaactcanc c 471

<210> 6577

<211> 418

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-B8



<400> 6577

aaatccatta cttctccacc ctctttagcc ttagggaagt caggaggagg aggagttatc 60  
agaagttcac tatgtaactt aatgatgcca agcaaagtta acttccttag acaaagaact 120  
caaactctaa aggttagcca gaagaaactc aagagagcta ctagtggtgg tcttggtgtt 180  
acatgcagtg gtggtgataa gattctcgta gcgaatcgag gtgaaattgc agttcgtgtt 240  
atcagaactg cncatgaaat ggggattcct tgtgttgctg tgtattctac tatagataaa 300  
gatgctcttc atgttaaatt agctgatgaa gctgtttgta ttggngaagc tcctaagtan 360  
ccagtcgtat ttggtgattc cganngttcn gtctccggct attatccgtg gatgttca 418

<210> 6578

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-C11

<400> 6578

acgcgtccgt ttgccttgct tgcttgccca gaaagtcgcc gagaaagtta aaagtagaac 60  
ggcggaggaa aaaaaaacga agaggaagag gagagatgga gtcgcagaag aagatagctc 120  
atgagatcgg aggtatgaag aacgatgctc ttcgctttgg tcttcacggc gttaagagcg 180  
atatccttag atctcatcct ctcgaaacgg cttacgaatc tgggaagcaa tcacaagaag 240  
aaatgaagag gagagtgatc acgcatactt atggagctgc tcttcctttg aagatggatc 300  
ttgatagaca aatcctttct cggtttcaga gacctcctgg accaattcct tcatcaatgc 360  
ttggccttga agtctacaca ggagctctag ataattttgg ttttgaggga ttactttgaa 420  
tgattctcgc caatccn 437

<210> 6579

<211> 482

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-C9

<400> 6579

tgttaccctg ctngtaccgg nccagaattc ccgagggtcga cccacgcgtc cgcccacgcg 60  
 tccgcgcatt tcaagttggt caacttcttc gtcgtcgtct tcttctttg ctccgtcgtc 120  
 gagatctcgt cgaacctcaa atctcaaatt tctgttaacc agatcgtcta attatccgat 180  
 ctgcgtttcg aatctcagat cgaagatgcc ggtgggtgct tccgccatct attttctgaa 240  
 tctccgtggc gatgtactca taaatcgcac ctaccgagat gacgtcgggg gaaacatggg 300  
 ggatgcattt cgtacgcata taatgcagac gaaagagtta ggaattgtc ctgtgcgtca 360  
 gattgggtgg ctgctccttt gtttatatgc gaatcagcaa tgtctacatc gtcattgttg 420  
 tcagtagcaa tgctaattgt gcntgtggat tcaaatttgn tgttgaaggc gtaaccttgg 480  
 tc 482

<210> 6580  
 <211> 493  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-131-Q1-E1-D12

<400> 6580  
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 agatagagtc agcacagcct gtcttctcgt gattctctcc cagatatata ggcttagctt 120  
 ggttttcttg tcattgctgg ctttagatat cgctagtcac tggctgcaaa tgtacagtac 180  
 cttcctatca ggaagacca gccataagga tgtgaaagat agcacgagct gggctcttta 240  
 nactctatta tggaaaccgg atgttcatgg gttattgctg tgtttctgc gaggttcttt 300  
 atataatcct tcttctcata gcaacgaacc anaccgaaaa cttgatgaac gtggtagtga 360  
 aatcattggn tgcagatttc accgctctct ttactcttgg ctttgagcat atttggttgg 420  
 tccatcanng cagatcanca atntgattca natgaaaaac ggctgcanat gtttgggtgc 480  
 ctgttgggca aaa 493

<210> 6581  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-D3

<400> 6581

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agccaaaggt cgatgttggtg actcttggn ccatctgttcg tgagggagag caagttttcg 120  
gtgttggtcca catctttgct tcattcaacn acactttcat tcatgttact gatttgtctg 180  
gtcgtgaaac tcctgtccgt atcaccgggtg gaatgancgt ganagctgat acagatgagt 240  
cctcacctta ngcagctatg cttgcancac aggatgttgc tcancgatgc antgaacttg 300  
gtatcantgc catgcatgtg aagctccgtg ccacaagggtg gnanacagna catngacaac 360  
nttggtcctg gangcacagt cngcccttag aagcccttgc tcgttccggg catnca 416

<210> 6582

<211> 462

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-D5

<400> 6582

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ttcgaccgct ttgaagctat aacacctgtt tgggctcctt actacaccat tcacaagatt 120  
ttagctgggtc tgattatttc tatggccgtg ttcgtaatgt gataaggaag tacagtgttg 180  
aacgacattg gcaatcacta aacgaagaga ctggtggcat gaatgatgtt ctttatcagc 240  
tatacagcat cactggagat tccaagtatt tgctgctcgc acatctcttt gacaagcctt 300  
gctttctcgg agtcctcgca attcaggccg atgatattag tggattccac gctaatacac 360  
atattcccat cgtcgttgga ttccancaac ggtatgaaat cactgggtga tctactccat 420  
aaggaaatcc ccgatgttcc nttatggaca tttttaatgc ct 462

<210> 6583

<211> 397

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-D6

<400> 6583

agactccttt cagattctta cttgcagcta tgggtaaaga gaagtttcac attaacattg 60

tggtcattgg tcatgttgat tctggaaaat cgaccacaac tggtcacttg atctataagc 120

ttggtggtat tgacangcgt gtcacgana ggttcgagaa ggaggctgct gagatgaaca 180

agaggctcctt caagtacga tgggtgttgg ncaaacttaa ggccgagcgt gagcgtggta 240

ttaccatcga tattgtctta tggaagttn gagaccacca cgtactactn gcacagtcac 300

tgntnccca ggacatcgtg atttcatcaa gaacntgagt actggtacct cncaaggctg 360

attgggntgt ncntaacagt tgaggctgac cactggg 397

<210> 6584

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-D7

<400> 6584

acgcgtccga aaatctaagt tgagaaaaag agagatctct aatttaaccg gaattaatat 60

tctccgaccg aagttattat gttgcaggct catgtcgaag aaacagagat tgtctgaaga 120

agatggagag gtagagattg agttagactt aggtctatct ctaaattggaa gatttggtgt 180

tgaccactt gcgaaaacaa ggcttatgag gtctacgtcg gttcttgatt tgggtggta 240

cgataggta gggctgagta ggacttggtc gttaccctg gagacggagg aagagtggag 300

gaagaggaan gagttgcaga gtttgaggag gcttgaggct aanagaaaga gatcagagaa 360

gcagaggaaa cataaaagct tgtggtggtg aagagaaggt tgtggaagaa ggatctattg 420

gttcntctgg tagtggttcc tctggttgt ctgaagttga t 461

<210> 6585

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-E4

<400> 6585

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 gccattgctg accaaggcgg tgtctttgtc gtcggagatg gaggattcgt cgtccttgaa 180  
 gaagagtttg atggagttag aagggaagaa gagtgagcct taccaggag gaatgccgaa 240  
 gatgggtcca ttcacagga gagatccgaa tgtgaagaaa cctgcttggg tgagacagaa 300  
 ggcaccacaa ggcgaaaggg ttcaaggagg tgaaagagtc nctttcncgt ctcaatctca 360  
 anactgtntg gtgaagaagc tcagtgtcct aatatcggn aagtgtttgg aatggaagtn 420  
 ggtgaatggg gtagcaanct gcaaccaatc aagggnct 458

<210> 6586  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-131-Q1-E1-E5  
 <400> 6586

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 agaggagata gagagagaaa caaaagaaag cagcctacat cttgaaagcc atccagccca 120  
 taaggacaat gtgagagaag cccccataa ctctagacct ttagttgagg gacctgggaa 180  
 agacaactca gaaagagagg gtggagagct acaagatgat ggtgctgttc ataaatctcg 240  
 aaatgttgat gtgggtgatg ccctaatacag ccaatcgcca aaagatttga aattgcttcg 300  
 agataagggtg aaggctaaac gagagaaagc taagaagttg ctangtgaaa agaacganga 360  
 aaaaggattt tgatggatga ggatgatttg attgaanaga gaactggaag atgtgcaact 420  
 agctgttgag gatga 435

<210> 6587  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-131-Q1-E1-E6  
 <400> 6587

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 ttaaccaaag cgataacccg taccaccggg tcagctatgg aggatttatt ggaggagagg 120  
 ctaactcgga ctgactctgt cgggaataaa cgagtcagag acgggttaga cctcgactcg 180  
 ccggacgtga agcgggtaag agatgatttg ttcgatgact cggggcttga cccagtgagt 240  
 caagatcttg actcgggtgat gaagagtttc gagaatgagt tatcgacaac gacggcggcg 300  
 ctaagctccg gtgaaactca gccggatctt ggataccttt tcgaagcttc tgatgacgag 360  
 ctgggtttgc caccgccgct tacgccaccg caaacgcttc ttctccggtt cgtgtganga 420  
 aacggtgacg gaattggtac gaacctcgtc ggattcatca ganggggtt 468

<210> 6588  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-131-Q1-E1-F1  
 <400> 6588

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 gacggaaaag gcgagagaaa acctcatgag agaatttatg actacgatgt ttacaacgat 180  
 ttgggagatc cacgtaaaac agaacgagtt aggccagttc taggtgttcc agagacgcct 240  
 tacccaagac gctgcangac cggccggcct ctggtttcaa aagatccacc gtgtgagagc 300  
 agaggaaagg agaaggaaga attttatggt ccanganatg aagttttcga ggaaatcaag 360  
 agnagatacc ttcagagcag ggagatttaa aggtctctct ccacaatctt gtaccatcta 420  
 ttgcagcagc attgtcanac nttagacatt cccttcacat gcttctcc 468

<210> 6589  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-131-Q1-E1-F10  
 <400> 6589

ttcagtgtta taaaaaggcg aagtgaagct aatttagatg cttctgatca tcttgccagc 60

agcacaaaga agttaccaag actctaattc cgatctgtat agtattcctt attcagagat 120  
 atatcgacct ttctcaaga aagcttctga attcttgacag aaagctgggg acttggtcag 180  
 ttgcgcaagt ttgaagaagc tactgcacag caaagctgaa gccttccttt caaatgagta 240  
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 catatgagac gtacgaggat gaaatctttg ggtataaggc tacatttgaa accttcacgc 360  
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 <212> DNA  
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 <223> unsure at all n locations  
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 gtattctgat gttttataacc ttgattgcct tc ga tatcttgagg aggtttcatc 180  
 gtgcaatatt ttcatgtga aggataatgt gatattctac t 240  
 cttgcctgga attaccgga agagtatcat cgaagtanct cgtagccaa gtttcaaggt 300  
 ggaggaaacga aatgtgacaa gttgatgaat tggtagaagc agacgagggt ttctgcacan 360  
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 cctac g 480  
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 <212>  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB24-130-Q1-E1-G1  
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 atagtagccg cgctttcaga gataactatt ccgcattttt taacagcttc gatcttctcg 180  
 gcacaaagtg gtgatatcgc tgtgtttcat cgaaatgtca agctcttggg tacgttatgt 240  
 gttacttcag gcatttgcag tggcatacga ggatgcttct ttgggattgc taacatgata 300  
 cttgtgaaac gaatgaggga aacactatac tccactcttc tcttccaagg atatatcatt 360  
 tttcgactct caaactgttg gtgacttaac aagcanactt ggctcagact gtcagcaagt 420  
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<210> 6592  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-130-Q1-E1-G2  
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 gaagaagata aggtgtcaag ctgtgcactg atccaggcta tggccaaggc atgccaagtt 180  
 tctgggacac ttgactctgg cttgaccgag tctgaggtgc cttatgagtc tgaaaccac 240  
 tttactgaag aacaagaact agagcagctt ataaatgggc acttgtgctg taanatttat 300  
 ccattttctg gggaagcaca cnggtctgat gaagacagan agattatact acctggctct 360  
 ttttaacccat tacatgaagg tcatctcaag ctgttanaag ttgctatgag tgtttgtggg 420  
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 tgcacagntt 490

<210> 6593  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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<400> 6593

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aatcttggtc atatcttttg ctaatccgat taacatcgga tctctttaga tttcgtttta 180

tgttttaagc tttctgacta tttttcagat ctatctcaaa cttcntgtcg gtttttcttc 240

tatactttgt ttcgatttgt agtttttttg taaagccttt tgccgtgttct tcaaatcaac 300

acttctaggt tgttgaagtg tnaaatcatt gtggtttgat gggctcttct tagctgtgta 360

cttgattctt ccgnccaant gttggttnaa tncncgctg cccatatggg attanattga 420

gcgattgntc acttt 435

<210> 6594

<211> 450

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-130-Q1-E1-G4

<400> 6594

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agctgaaatc agcaaactg agaaagccag acttaaagag atgcagaagt tgaagaagca 180

gaagattcaa gagatgctgg agtcgcagaa tgcttcatt gacgcggata tgaacaataa 240

gggaaaaggg agactgaagt atcttctgca gcaaactgag ttatttgccc actttgctaa 300

aagtgatgga tcttcttctc agaagaaggc agaaggaagg ggacgtcatg cttccaaant 360

aactgaagag gaggaagacg angagtatct aaanggaaga agangatggc ttaactggat 420

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<211> 383

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-130-Q1-E1-G6

<400> 6595

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cagagccaac tgtcctgaga ttctgatttc gattttctcg atctctcttc ctccgctgcc 120

ggcgaaacca tgtctcagtc tattcaattc tccactcctt cacacactcc tcaccttctc 180

catctccctc actcacaatt caaccgtcct ctctcctcta tctccttcg tcgcttccct 240

ctaacaacca tcaaatacac ttccatcaga gctcctcgt catcancncc ttcaccggat 300

ctcgattcan cggctctcat catcatcnc gnaagtactt cgctcaccta acggtantgg 360

tgctgtgaag tcggangaga gat 383

<210> 6596

<211> 446

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-130-Q1-E1-G7

<400> 6596

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ttgtcggcaa atacgcagat gagctgataa agacggctaa gtacattgcc acaccgggaa 120

agggcatttt ggcagcagac gagagcacgg gaactattgg gaaacgattc gccagcatca 180

atgttgagaa cattgagtcc aaccgccaag ctctccgtga gctcctcttc acgtcccttg 240

gcactttccc ttgcctctcc ggtgttatcc tcttcgagga aaccctctac cagaaaacca 300

cggatggcaa acccttcggt gagctcctca tggaaaacgg agttatccct ggaatcaaag 360

tgggacaagg ggtgtggttg atctagcagg aaccaatggc gagaccacta ctcaggtctc 420

agattcactt ggtgcacgtt ggcang 446

<210> 6597

<211> 459

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-130-Q1-E1-G8

<400> 6597

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ttgcacacag tccagcttgg ttcgaaccac aagaccttga gcatgttga ggttccattg 180  
aacgtgtgct tgatttcac ctaggatggc atttggctcc aacaacttat ggagattatc 240  
cacaatcgat gaaggatcgt gtcggtcata gattgccaaa attcacagaa gctgagaaga 300  
agttgctaaa gggttctaca gattacgtag gaatgaatta ctatacttca gtgtttgcaa 360  
aaagaaatta gccctgatcc taagagtccg agttggacga ctgattctcc tgttgaattg 420  
ggaataacaa gantngttgg atgggntaca aaaattggg 459

<210> 6598  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-130-Q1-E1-H2  
<400> 6598

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agctaagttc gatgagcttt atcgggtcaag ctgggctatg gatcattgtg tcaacgaagg 180  
cgaagtcaca aaactcaagc ttgacaatta ctctggagct gggtttgaat caagaagcaa 240  
atacttgttt ggtaaagtct ctatccagat taagcttggt gaggggtgatt cagcaggaac 300  
agtcactgct ttctacatgt cttcagatgg tccgaaccac aacgaattcg attttgagtt 360  
cttanggaac actaccgggc gagccttaca tagtccagac caatataccta cgtgaacgga 420  
gtttggnaac agagaacaan gactcaac 448

<210> 6599  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-131-Q1-E1-A10  
<400> 6599

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gctttaaaag aagcccttct gaggggactt aaagtagtca tagctacggg gaagtcccgc 120  
ccaggtgcga tcagaatctt gaagacggct gatctaactg gatccgatgg cattatctca 180  
gagtcctctc caggcgtttt cgttcagggg ttacttgtct atggtagaca agggaaagaa 240  
gtgtatcgag gaaacttaga ccgagatgtc tgcagagaga cctgtcttta ttctttggag 300  
catcgaattc ntctcattgc attcagccag gatcgctgct tgacattgtt tgaccaccct 360  
cttgtcgact ctcttcacac aatctacaag tgagccaaag ggcggnatta tntcaatcgg 420  
gttgggtcaac nggatagcct gaancctgac aat 453

<210> 6600  
<211> 489  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-131-Q1-E1-A11  
<400> 6600

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acggtcattt gcgaatttcg aacaactctt tcaataaaag caacaaaaag atcgaaactt 120  
tacagtcgta ggaaggaaaa aaatggtgag aaagcgaaga gttgtagtgg ggatcacacc 180  
agatccatgt gagacannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnacacctct cagaggtata ttttgtctca aaacacgaca 300  
agatatgaag attttcgaag agaaagagga ttgctttatc ctcgatttcg atcccaacga 360  
ttcatttgat gcacgaaagc tctccgatag ccctgcatct gaatgtgacg acgacgtggc 420  
gattgtccat gagaaagggc aagtggcttg tagggatttt ccacatccaa ggnatctcct 480  
gccttgaaa 489

<210> 6601  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-131-Q1-E1-A12

<400> 6601

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ttaccaacat ctcccaagc aagtaagcca aaatcctgac gtgggtggat ggagtttctt 180

gcaatatttc tctgagccaa aaggcattgt ccagaacaga gaagacgaca caaagaaaac 240

agcttatgtc taccgatcg agaagcggtc cgtagctaaa ctgagccttg agatgtgcac 300

aagagagcct cgggaccgag aatgggaatt gatagtggag acgagatgtc cgttacttgc 360

gcnttgaagc aaccaatatt tcaaaagagt cctcgtctt acnacgaaaa cctcaaaaag 420

gaaactaagc ttcatgaacc gttgngga 448

<210> 6602

<211> 464

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-A8

<400> 6602

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cttcttgctg aaagagttac atgcggtccg ggacatggaa tcagtattgg aagtcttgga 180

aggtacagcc acgaggaaaa cgtagtggtc atcaagatca tcaactgcac tctccaagag 240

actgacaatg gtctaaggat caagacatgg ncttctgctg cttgtaccac aaccgcctcc 300

gatatccatt tcgagaacat cctcctcaag aacgtcagca accccatcct catcgancaa 360

gagtactgcc catggaacca atgcancaaa gcagnnanca tcaacgatca aagttgggca 420

acagttagct tcangnagat taagaggaac atnaaggaaa caga 464

<210> 6603

<211> 444

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-A9

<400> 6603

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tcctgtcatg tctgattgcy aaatcgcttt tttcttcttc ctgagttcct ttttttctcc 120

gatgaaattt taaccgtgat gatgatgatc ataatgaaac agatatgagc aagaaaaatc 180

tagcgattct gttgcgtgct agaatgagat ccaacaatcc ctccaaattt tccctctctc 240

aatttcctaa ggaaattcaa tctaatactc aagagaatca ttctagagat cacattgtgc 300

aaaattctaa tgattttggt accactggaa ggggttatga tgttggtcga gaagacaatg 360

cactcagcna tctcagctnn taaaactggg ngtagtagac attactcctt aatgattttc 420

aagnanggt tacttaaccc tttc 444

<210> 6604

<211> 417

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-131-Q1-E1-B10

<400> 6604

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tgaatgtatg gcaaaagatc ttgagggacc tcaaacccaa agaggaagaa aagaaaatca 120

tggagatgac acaagataca ctccaagggtg aactaattcg attgttgga acgtctaagt 180

cattaattgt cctcgatgac atatgggaaa aagaagattg ggaactaatc aagccaatat 240

ttccaccgac caaaggttgg aaagtgttgc ttacttctcg aaatgagagt gtcccatgc 300

gtagnaata catcatatat caactttaac ccagaatgcc taaccactga aagacagttg 360

ggcacntttt cagaggatng cacttcenat gaaaagatgc aagnctgaaa ttttaaga 417

<210> 6605

<211> 368

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-130-Q1-E1-F9

<400> 6605

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 tattacccta aaggcctttg tcttggcatc ctcgtcctct tcagcaggaa ctcatctgtc 120  
 ttggaagaat tattaccatg tctgcttttg tcagcaaata cgaagatgag ctgatcaaga 180  
 cggccaagta cattgcaacg ccgggaaggg gcattttggc ggcagatgag agcacagaaa 240  
 ccattgggaa acgattcgcc ggaatcaatg ttgagaacac tgagtccaac cgccaagctt 300  
 accgtgagct cctcttcact tcccctggca gttacccttg cctctctggg gttatacnct 360  
 tcgaggaa 368

<210> 6606  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-128-Q1-E1-F7

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 tcaccggtgt tctgttatta ccaccagtga cactatcaga aggaagaatc tccgattcgt 180  
 tagaaacccg agattgtcgt tttctcttca atcttcaact agaaattatc gtctgccttc 240  
 gattaattgc tcgacggtga atggagcagt aacggaaact gcggaatatt acgaaggaga 300  
 aggagataac gtttcacttg ctgagaaaat ccgggcaatg tattgatttc ctccggacga 360  
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 taaacctgtg actgttt 437

<210> 6607  
 <211> 389  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-128-Q1-E1-F9

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tgaagatgta tccagagata gacgcagcga cgatggagga agccattgct atggacttag 180  
agaaagaatt atgttttaac aatcatggag acaagtttgt tgagtttttc gtctcaaaga 240  
agttaaccga ttataggttc catgcgtttc aatggctaata ccagactcgg agtcggctaa 300  
atctttcata tgaaacggta ttttccgccg ctaattgttt tgatcggttc gtcnecatga 360  
cttgctgtga cgaatggcga attggatgg 389

<210> 6608  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 6608

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aataatctta gacgcaaac attaccgcct gagttgccga gttccaagag gattatgaan 180  
aaagctcatt tttctgaacc agctgtcact tgtccagcct ttggagaacg acaacatagg 240  
gtctctctgg aatgacagag ctctgaatcc annaagctga ggaagacact gcattcttcta 300  
ntnaatgtat tagtcgcang aatttcagat ttatcngatt gagaagcaac agtaanagga 360  
acattgagtn ngtaaagcaa atttccttca aggtgcaatg taangggctc tca 413

<210> 6609  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-G10  
<400> 6609

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tgatatcaaa ccgtgggatg atnagactga catgaagaag cttgaggaag ctgtgaagtc 180



cattcagatg gaaggtttgt tttggggagc atcaaagctt gtcccagttg gttatggat 240  
 caagaanttg cagattttgt gcaccattgt tgacgacctt gtctctantg acancatgat 300  
 cnaacgagca nctcacngtt gaacccgatc aatgaatatg tcnannctg tgacattgg 360  
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<210> 6610  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-128-Q1-E1-G2  
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 tcttctggga cataaaatcg tttccgggtc ccgatggcta tgatgctcga ctgggtgggtc 180  
 cgtgtatcaa acggaatttg aggaagttag gctacacagg tcctatcacc atcaactgccg 240  
 ttggcgact atcagagggtc cctcgtgaca tccttaaagc agtgatttcc actgggaatc 300  
 tctcttaagg aggtcattaa aagtcgaca aacatgtatg ctcttttctc tgagtcctct 360  
 cttcttcgta ctccacctcc agctaatatg atggtcatat ccccgctcaa catcctaaat 420  
 tcc 423

<210> 6611  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-128-Q1-E1-G5  
 <400> 6611

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gcgtgaatgg gaaagaaagt tgcaagaagg agaagaaaga gttgctaaat ctcaaagtat 300  
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 gaagacgatg ntcagtt 437

<210> 6612  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-128-Q1-E1-G7

<400> 6612

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 aacttcaaata gggaagcttt acggttcggt ttggtgctct tcgcgttgac tacactcagc 240  
 atcacattct cattccatag gaacttgtct caccgtagct tcaagatacc aaaatggctc 300  
 gaatatcctt gggcttattc tgctgttttc gctcttcagg gtgatccaat gggattgggt 360  
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 angaaggatt att 433

<210> 6613  
 <211> 408  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-128-Q1-E1-G8

<400> 6613

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 cctgtcggat gaggaagcta tcagagttgg aggagccaat cacagccatg ccaccaaaga 180  
 tctctatgac tcgatcgag ccgggaacta tccgcagtgg aatctcttcg ttcaggtgat 240

ggatcctgcc catgaagaca aatttgactt cgatccgctt gatgtcacia agatctggcc 300  
tgaagatatc ttgcctttac aacctgttgg tcgcttggtc ttgaacaaaa acatcgacia 360  
cttctttaat gagaacgann cagattgcat tctgtcctgc tcntgggtg 408

<210> 6614  
<211> 427  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-H1

<400> 6614  
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gtttcagcaa tttccagcag ctaccagga aaagctgatt gaattcttcg gaaaattgaa 120  
gcaaaaggat atgaactcaa tgacagttct tgttctgggt aaaggcgggt tcggaaaatc 180  
atccactgtc aattctctta tcggcgaaca agtcgtccgt gtcagtcctt tccaagctga 240  
aggattgaga ccaagtgatg gtttcaaaga acaatgggag ggttcactan caacattatt 300  
gacanccctg ggacttgtgg gnagctgggg tatgtcantc ancaagctct cgagttaatc 360  
aaanggtttc ttgtgaaaca nncacaatag atgtcntgcc tcnnatgttg atcgtttggg 420  
anggtgt 427

<210> 6615  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-H2

<400> 6615  
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acgtaagagc gttgtattgg gttcgcatc cgggttctgg caagactctt gcttacttgt 180  
tgcctattgt tcagctgatg agagaagatg aagcaaacct tggtaaaaaa acaaagccta 240  
gacgtcccag gactgttggt ctttgccta caagagaact atctgagcag gtttaccgtg 300

tggcgaagtc cataagtcac cacgcgaggt ttagatctat attggntagt ggtggttctc 360  
ggataaagac cccaaggagg attctttgaa caatgcaata gatatgggtg ttgggaaccc 420  
ctggtaggat tcttcagcat atcgaagaag ggaaacatgg tgtatgggag atatc 475

<210> 6616  
<211> 384  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-H3  
<400> 6616

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acacggagga aacaagaggc ttatttcagt tcagacgaat cagatcagga agcttgtgaa 120  
tcatttggtt tactcttttt tctctcttag gctctttgat gttgagggtc gagctgagat 180  
tggttctgat gaggttattg aggaaagtca gagccttgcc tangagcgat tcatttgcac 240  
tctggggact gatgctccac tgaatgtgac attcataaga gcgcctccag gtgctttgtt 300  
gaaagttgat atccctcttg tgttcattgg agatgatgtt tctcctggat tgaagaangg 360  
agcatctctg antacgatta acag 384

<210> 6617  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-H5  
<400> 6617

agagagaaga agaagcacct ctcatggcga accagcttct tcaccatctt ccgattcctt 60  
ttctctcca ccgtcacttc tacctcctaa acgccgccgt tttatagctt ctctcccga 120  
aaatgctaaa ccacattcc tcaaattctt caccgacgct tttttagatt cttgtagagg 180  
aagagaatat ttttaaggag gttgttttcg atggagcatt acgagggttct tgagcaaatt 240  
gggaaagggt cttttgggtc angtcttct tgtgaggcat aaacatgaga agaantttta 300  
tgttttgaag gaaaattcgg ttagctangc agactggtag aacantgaag gtctgctcat 360

cangagatgg nattgntcgc aanngataag gaatccattt attgtgggaa tagcnaagat 420  
 tcctgg 426

<210> 6618  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-129-Q1-E1-A8

<400> 6618

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 gatgaagatc tcaaaggaag tgaangaaaa cccggttcta tgangtcnga ctttattaaa 120  
 agcttacaag tcatatctgc agaagttgat tatatttgaa aagcagtcag tatataacca 180  
 anttgccaat cgggtgccttt gtacattgct ggaagcagtt cctcacttca actaccgtga 240  
 taacctgtta attgctgttg tcagaaatat cagctcccca gatgaagtcg taaaggagac 300  
 ncngttgctc cnactatcag gtatcttttc tcaaatagaag gggaaacatg gttggttgag 360  
 nctgaccgtt gcaagctgta cggcctgant tgctgatca tgtcnaagct canaaactgg 420  
 ccaaacttc 429

<210> 6619  
 <211> 432  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-129-Q1-E1-B5

<400> 6619

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 taatttcttc ttcttcttc ttttcttact aaattctctt agggtttttag tcatacttaa 120  
 tggcttccaa ttccggagaaa aatcctcttc tttcagatga ggaaaccaa atcgacggag 180  
 gagaataaga gttctaagcc ggaatcagct tctgggaatt caacttcac aagctatgcc 240  
 tggcttgaat ttcaatgctt ttganttctc taaanaaggg ctaagnattc tcaanngatc 300  
 ctagcatcag aggaaatngc ngagcaaata ngctnaagat ctgncgntta aacaaatggg 360

ctgaggcanc ttcangagat ctatccnnac ncctggncaa gaaaagggtg gttcccctaa 420  
ctttgattcc nc 432

<210> 6620  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-129-Q1-E1-B6  
  
<400> 6620

acgcgtccgc ccacgcgtcc gctgttcttc tccatcttcg attttaccta ttattgatac 60  
gagaagtggg aatttgcat gcacatttca agtctcaggt ttcttgtggg attcagagag 120  
atgataatgg acgccgtgtt tggcggagga gaacattgac gangaaggac gatatgttgc 180  
gttacaaaat gcaaagagtt ccatttgtgg nagaacaagt aaggaagata agagaantt 240  
ggaaggtaat gacaatggac ataggagcag nttcttttga gggaagacaa tcgggtttga 300  
atgtgtcaat agcgtagcaa gctgaagcaa cagagtacgt ggacaagaac anagacgaat 360  
atgggaggtt ccaaaaaaag ccattcttca tgttctaaag caaccctnt ngaacgatct 420  
cnggccttga atcgccctgg 440

<210> 6621  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-128-Q1-E1-F6  
  
<400> 6621

acgcgtccgg agaagcagaa gcttgaagaa tctctgtaat ctaaaaaatg ggaaaggtcc 60  
acggttcatt ggctcgtgcc ggtaagggtga gaggtcagac acctaaagt gctaagcagg 120  
acaagaagaa gaagcctcgt ggtcgtgctc ataagcgtct gcaacacaac cgccgtttcg 180  
tcaccgccgt tgttggtttt ggcaagaaga gaggaccaa ctcacagag aagtagatag 240  
aagaagggtt tacccttttc agattttatg ggatgttttt gatatttgt cattagttgg 300  
tccaaactca tcgatatcaa agtggtttta ccttggttat ctacaaatca gtggatgttg 360  
tgtcaatttt cttgtcaatt tgatttttgt ttctctcag attaaactta aagttctg 418

<210> 6622  
 <211> 399  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-128-Q1-E1-C7

<400> 6622

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acgcgctccgc ccacgcgtcc gattttctta gaaaaaaaat tatgggattt tgcttctcca 60
aatttggcaa atcacaaaca catgagatnc caatctcttc ctcttccgat tcaagccctc 120
ctcatcacta ccaacctctc cctaaaccaa ctgtttctca aggtcaancc agtaatcnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnng 240
gttcacanga tcgggtccant cctaaaccga ccaatgatcg atctctcagc tctctacgac 300
ctccacnnca gaactcggcc gtggccaaat tcggaatcac ttacaaatgc atgggncaaa 360
tccaacggtc gagaatacgc ctgcaanatc ccatctcag 399
```

<210> 6623  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-128-Q1-E1-C9

<400> 6623

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acgcgctccga attgatctga tccgagtctt tcaagcgggg agagaaagag agagattcgt 60
tagtacattg atctaattgc gtcgaattcg gaagcggggag gatcggcgga ttacgaaaca 120
ttgatgtcga catcggacgt tgagctattg aagagggcgt ggcgtaacga gaaggcggcg 180
ccggagattc ttcagtacga aggagctctt gtcgatagag ccaaagaaca gatcgaatta 240
gtggaagaaa caattgaaga ttatgtggaa aatggcatag atcctctggt ggtgtctcta 300
tatcagatgg atttggacag agcccagttt ctactcagat catatctcag agttaggctt 360
ctcaagatag agaagtttat gttccacaac ctcaactcaa gaagaagctg aaaggcgact 420
ttctgagcaa gaaaaagtgt 440
```

<210> 6624

<211> 488  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-D1

<400> 6624

aactgttacg ccttccggta gccgtccnaa attcaagggt cgacccacgc gtccgcccac 60  
gcgctccgaaa taattgagtt ttttttttaa ttagaaacaa atgggggttga gtggtgttct 120  
tcatgtggag gttgaggtta agtctccggc tgaaaagttc tgggtagccc ttggccgacg 180  
gcatcaatct cttccccaaa gctttcccta acgactacaa aaccatccaa gttctagccg 240  
gcnatggcaa cgctcctggc tccattcncc tcattactta tggagaagga tctccactgg 300  
tgaagatatc ggcngagang atcgaagcag tggatttggg agaacaaaag catgtcgtnc 360  
agcatcattg gcggagaaat gttgggagta ctacaaaanc ttcaaaggaa ccatcaccgt 420  
taccctaag gatggtggta ncttctgaaa tggctctggtg agtttgaaaa aaccgccccat 480  
gagattta 488

<210> 6625  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-D10

<400> 6625

acgcgtccgg gacaatcctc aagttgatct agagaaagtg aaacgtggct tgagaaaagt 60  
acataatccc gtagttgaga actctatcca acctcaactg gttccacaga ttgcagttga 120  
aaagccaaat gtagttag aagaatctgt gaatgccttt gatgaagaga aagaagatga 180  
agtggctgag acagtgggtc aacaacctga agagttgata caaactcata caccattggg 240  
gaccaatgaa tctcttgatt ccacattggt caaccaaadc gaagagagtg aagaaaatgt 300  
aatggccgag gaaaaggagg atgtaaaaga agagaggact cccaaacaaa accataagga 360  
gaattcagct ggggaaggag aatcanaant ccgggaaaaa ggctcntcgg ttact 415

<210> 6626



<211> 459  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-D2

<400> 6626

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acgccttctg tagcctcna aattccaaag gtcgaccac ncgtccgng acgcntgggg 60
tcagaatcta atggaccag naagcctaac agctttccac atcctttaat ccaanaaatt 120
gattcagaac ttccatttgt gcagcctgcg cttcaactga cacacagaat atttggttct 180
tgccctccaa tgcaaanttt tgaccanca aagttgctca cggactctgg gaagctgcag 240
anacttgata tattattgaa gcggtctcga nctggaaatc acaggggtgcg cctgtttgca 300
cagatgacaa aggatgctga acattctcca ggattatatg anctatagaa agtacaagta 360
nctcaggctt gatggatcct ccaccatcat ggntcgccga natatggtna gggattttca 420
gcatatgagc ganatttttg taggcctgct gaacancac 459
```

<210> 6627  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-D5

<400> 6627

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acgcgtccgn aaatctctgt ttccctctct ttatctcctt tgttgcgtac tgattctcta 60
agccgtgacg gtgtgccagt gtctgtcctt gtcttattat cactgcgcga gttcctattc 120
gtgcccgcga actgttcgtc aaattgcctg aaccaattct tccgacaatc ctaaaagttt 180
ggatttttgt gattctaaaa actagggttt tattcaaatt actcaagaat ggctactact 240
gcgaatggaa actctaagaa aagagatggt gggctctatcg tcgcttgccc ctcgcaaaat 300
caacgtgcag aaaattctca gaggctcgaa gcaccaagaa gctcgaatct cttcactcca 360
ttgtgtctga gcgtttgaac aaggactttc gatcaaagag gaataagagg agaaggacca 420
attcttacia taatcaacct 440
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<210> 6628

<211> 419  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-E1

<400> 6628

gaagatcacc gtcgtttatt ctcgacgagc gacgangctc gaattcacct ccaatggngg 60  
atacaacacg aggtcctttt caaaaccctg attccatctc cgcttattac caaactcagc 120  
cggngcatca cgggtgtcatt acangcgact ggctagccca agctcaagcc gccgttggcg 180  
gngtctcang cgangcccag catgacttat ccgtaactga tctcggaac gagaagtcgt 240  
ttaatgtaat tgnngagttc agtaattgga ggaanacaac cggatctggc tgaagccgtc 300  
gcggtatatac gagctttggc tgctgttatt cgtgcgagcg aancgagcac catgatggag 360  
cttgaaattg agctcaaaaa ggcttctgat aactcaagt cgtgggacaa aacgtcgat 419

<210> 6629  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-E10

<400> 6629

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gcaaaacttt cattagcatt aggtctattg ctactattag cattaantga ggtctacgaa 120  
gtgcaagggt cgcttcttatt gaggcattac atgaggaaat ttcccagaag gtccagagac 180  
tttcggccat tcgcttgag aggtatgttg aagttcgtgg acgttttgga gcttaagtgt 240  
ccattaaagc cacaatacaa gagcttcttc ggaaacctaa ggtcttacat gaacttcata 300  
aactcggcat ccgggtcgaa aaactttgat gccgagctaa aagggaagc ccagggcctc 360  
ttctcagcna ggtctgcaat nagtgggcaa naggcgccgc aatcggtga nttcctagca 420  
naggttantg gatacgattg cct 443

<210> 6630  
<211> 479  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-128-Q1-E1-E3

<400> 6630

ttacgccttc nggtagccgt ccnaaattcn aggggtctctt tcctcaatcg gagtgagcgc 60  
aaaaaatcaa aaattcgccg agagcacaaa ccctaattggc ttctctctca atggcttccg 120  
ttaacgtagg cttctgtcat cctttacgct cttcttctcc aaaggcttca cttcgcagtt 180  
ccgttcattt cgcgacgagt ctttctctca gtcactccat ttctgggctt cgcgctgttt 240  
tgctctgaa gatttctaca gttgcttccc ccaatttctca aaagcttcat tcttttaccg 300  
ttttcgctca taagggtac aagatgaaga cccacaaggc ctcagcgaag cggttcaaga 360  
gtgacgggta gaggggaagat tgtgaggagg agatctggaa agcagcattt gttagctaag 420  
aagaacaaca agaggaaatt acgtctatcg aaaatgacgg aagtgaaccg gagcgacta 479

<210> 6631

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-128-Q1-E1-E6

<400> 6631

ttctctataa aacataagag agtctaaaca ctgtggtaga aaaaaatata gactttttaga 60  
tatgtgtagt aaaataacat tagtggttaac tttattttcc agttatttca tatcaacaga 120  
tgctgtgaat ggatcatttc ctgcgctttt ggcttttgga gattcaattc tcgatactgg 180  
caacaacaat tttctctga cttttatgaa aggaaatattc tggccatatg gaaggagttt 240  
cagcatgaga agggcgacag gaagatttgg aaatgggaag agttttctct gatataagtt 300  
gctgaagggt tagggatcaa gaagatttta ccagcttattc gtaagttgtt caattctcca 360  
agtgacctta gaactggtgt ttgcttcgca tcangtgggt gcaggagttg accctgttac 420

<210> 6632

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-E8

<400> 6632

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gggttcacat ttttatacaa tatcacattt tcaactgaatc ttcctctgcg tctctcagga 60
ggaagaagat cattcagttg aagcanacat ttanagggtt ttgttgagag gcaatggaag 120
ggggagaaga gtttcaagaa gaagaagtgt ggtcagtttt gagagaaagt gaaactcaag 180
gtcctgaaat gaaaatgtcc aaaagtaaca atctcttctc agcctcttcc tcatcttctg 240
cgaggtagat tcctaaaggc aacgaggtct ctggaggggc aaaacagtca tctgctccaa 300
tgaatattcc tgactggtcc aagggtttatg ggtattcaaa gaanaacaca ngcagccact 360
tgcattcatg ggccattgac gatgatgatg aaggctcaat gggttctctc aca 413
```

<210> 6633  
<211> 486  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-E9

<400> 6633

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cttntacgcc gcccggtacc ggtccaaaat tcccgggtcg acccacgcgt ccggttttgt 60
ggaggaaccc acataacaaa caccgcgaa gccaaagcat ttgctcttct atcggaggag 120
ggaattgcta aaggatttcg tagggtaact gctgtgacta ctgaatgtgc ttttgatgca 180
ttgaatgcgg cgtccttact tgaaagagaa gtagaggatg cctccagagc ggaggggaagt 240
gcattggaaa agaaagtttc tgctttgaaa agccgagtag atgcagcaat tatcccagca 300
gctaaaaagg cagatattag gactaagatt gcttcgcttc agaataaagt aagaaaagct 360
cagaagaaaa tagcgaaca aaacctgaaa aaatctgtca aattagcaac agaggcagct 420
gagtcgcgag catcagatgg gaagactttc tgcataatcc aactgggatg ttgggtccnt 480
gatgca 486
```

<210> 6634  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-F10

<400> 6634

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atgattacta gtgacaagac aatcgatgct cgtggcgcta acgtgcacat cgcataatggt 120  
gctgggtatca cgatgcagta cgtgcacaat atcatcatcc atgggcttca cgtccaccac 180  
atcgtgaaaa gcagtgggtg tttgataaga gattcgatta accactttgg gcatagagga 240  
gaggctgatg gagatgggtat ctctatcttt ggggcaacaa acatttggct tgaccacatt 300  
tctatgtcta aatgccaaga tggacttatt gacgctataa tgggttccac cgcaatcacc 360  
atctctaact ctcatctcac ccaccacaac gatgtgatgt tgcttgggtg cacaaaacan 420  
caacatggat gacaagaaag atgcaagtca cagtggctta caaccatttc ggaaaaggac 480

<210> 6635  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-F4

<400> 6635

tcgaccacn cgtccgggcg aaaaagaacc cgtcgccgtc gaatcagccg gcttgcccaa 60  
cggcctagta agtcatggta actccaagac acggcgcgta tacgaaacag ctcgatctct 120  
gcataccggt gctgtgaaag atcttctctc tctcggggtc tgtgagagat gtattttccg 180  
attggtatcc gtcgaggctt ttgattccga tatttcatca gtctcgactt caactctgcg 240  
cagctggctc aaatccggtg atgatgaaac tagtgcatcg gaatctagct gttccacaat 300  
ctgcattggt tgttttaggta tattgcagtt cgttttttcc gatgtcaaaa aagagctggt 360  
gaaatcggat tctagtagtg attacgttgc aagggataac ggacttgggtg aagcangatc 420  
tcatgagttc gaatagcttt 440

<210> 6636  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-128-Q1-E1-C6

<400> 6636

cgatcacttt acttaatcgt cttcatcggt attagtcttg ttaaagcttc gaaaagcgat 60  
gatggggttt gttcagcgcc ttcgattggt gaatcggatg agaagacgaa cccatttat 120  
tggaagcca cgaatccaac actctctcct tcacacctcc aagacttgcc tggtttcaca 180  
cgaagtgtat acaaacgaga tcatgcgtta ataacaccgg aaagtcattgt atacagccct 240  
ttacctgact ggacaaacac attaggggcg tatttgatca caccggcaac gggttcccat 300  
tttgtcatgt acttggcgaa aatgaaagaa atgtcaagtt caggtttgcc tccacaagac 360  
atagagcgtc ttatattcgt ggtcgagggt gctgtgacac tctaatacac atccaagtt 419

<210> 6637

<211> 430

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-128-Q1-E1-A5

<400> 6637

cgagcaagag gctttcatca gtaattcgtc gtcggagctc cagaacgagt tggatccga 60  
cgccggcgat ggtattgaag caatcgctaa tcgtctgagc aaatggattg tagcagctct 120  
gtttggatcc gttctgcttc tacgacatga tgggtgcagct ttgtgggctg tgattggatc 180  
ggtttcaaatt tccgtgctct cagtagcttt gaaacgtata cttaaccaag agagacctgt 240  
tgctactctc cgttctgacg ctgggatgcc ttcttctcat gcccaatcca tttctttcat 300  
ctctgtgttt tctgtcttct ccgttatgga gtggcttgga accaatgtac tcccgctgt 360  
tcntaagcg gttcatcct cgcaattggg ttcttatttc acgtgggtta agggtttctc 420  
anaaagcctt 430

<210> 6638

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-128-Q1-E1-A6

<400> 6638

acgcgtccgc ttatccagga taacgataac aacactctct ctctcactgc aagagcgcgga 60  
aacagagtaa ggctcacttt gttttagctt tctcctctac ttcgataatg ccgtttgctc 120  
cttccttggt gtcacgtctt tcctcagtct ctcaatttct tcccagattc cccaacgcga 180  
ctagattcaa tgtaactcca cggagcagag ccgccaccgt cgtcgcggca tccgtcaccg 240  
acctagccgg ggtcgacagt acaacaatcg ccgtactcgg tggaggatcc gtagcagcac 300  
tcgcggcgat ggtttcctta acggatccgg agaggaggcg gaaattgcag gcggaggaag 360  
ttggcggagg cgataaggag gttgtgaggg agtatttcaa tagcacgggg ntcgagaagt 420  
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<210> 6639

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-128-Q1-E1-A8

<400> 6639

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gattaaaaga tggaccagtc ttttattttg atattccgtt agcttggtca gttattgtag 180  
aagctgtacc gtcaagactt ttaatatctc aaatggatga tgggtgggcat cgtgagaatg 240  
gtcggcataa agcagcagtt cagggccagt ggttgatgca gcatcagccg tcgatgaaac 300  
aagtgatgtc gataatagca gagcgcgatg cagcgattca ggagagaaat ctggcgatat 360  
cangagaaaa aagcagcagt agctgaaagg gacatggcgt ttcttcagag ggacaccgcc 420

<210> 6640

<211> 424

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-128-Q1-E1-B11

<400> 6640

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cgcggcggtg gaagaggtgg tccgagaggt cgtggtcgcc gtgcaggtcg tgctccagag 180  
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aagattgagc agatctacct ccattctctc ccagtcaagg agtaccaaga tcatagattt 300  
actcgtcggc ccttcattga aagacnaagt gatgaaaatc atgccgggtc aaaaacaaac 360  
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ggtc 424

<210> 6641  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-B2  
<400> 6641

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gggaaacttt gtcagatgat cttcgactgt tagatgaaga ttggggcaag agcgggggtt 180  
ttgatgtgga cttctcnaaa ntgcgtcaca gatttggtcn cggagctggt catctcgacn 240  
acnacaatat ggtagcgag cctcatgaga ccaacagnga tttgctcaan aggttggtcca 300  
acatggctat cnccttctac ancgacaaga cggggataaa antggaactt gtcaaggttt 360  
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<210> 6642  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-B3  
<400> 6642

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ttttgtcgaa ctttttattg gttctaggga cttcactctt ctgtggagga atcgctaata 240  
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tgggttttctt gtgtcacttg ctgccattgt tgggtgggata cttgaaaaac ggagaggctt 360  
cggctgctgt tttgtccgac atgcaactga gtatatcgcg aggccttcagt attgttatgt 420  
tgatcagcta cattgcatat cttgttttcc aactgtggac tcaccgcaa tt 472

<210> 6643  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-B4  
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ctattcactc actcaaactc ccgccggagc taaatcaatc aacaatgacg tcgacctaca 180  
cgagattcga taccgtatct ctcttttcta ggttcgcccg cgctaagtat tcgccgttat 240  
tgccgtctcc gtcgtttact ttatctactt ccggcattca tatcagaacc aaaccgaatt 300  
ctcgttttca ctcgattata gcatectct catcttcacg tgtagtcgcc ggaactgata 360  
gcattgagat taaatcggtg ccgacgaagc ctattgaagg aaaaaagact ggaactagcg 420  
gactccggaa gaaggtgaaa gttttcatgg nnagataatt atttaagcca actgggnt 478

<210> 6644  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-128-Q1-E1-B5  
<400> 6644

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tttattcgat ctgaatggcc tgcggttgat ataccacttg atcatcatgt tttcaaagtc 180  
 ccaaaaggat ataatgcacc acaacaagta cacataactc aaggtgatta tgatggtaaa 240  
 gctgttatca tctcttgggt tacacctgat gaacctgggt ctagccaagt acattacggt 300  
 gcggttcagg ggaaatatga gtttgttgct caagggactt accataacta cacgtttttac 360  
 aagtataagt ctggctttat tcatcactgc cttgtctctg accttgagca tgatacaaaa 420  
 tact 424

<210> 6645  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 acatcaacag ctcttgcaa gcttcgcgcc ggttaanctc agccaccgca accgcttttt 180  
 canengattc ctcttctca ttccgtcgga cacgtggtgc gcgtcagaga atcgcttcat 240  
 cgaaatcccc ggcgctgta ccgtctcng ttcggagacc atctgatgga ttcagtttcg 300  
 atgttcggtc accgtcatct gattcatoga tctcatcacg gaagtcacga cgaaggggcc 360  
 gcctaagggg ggnctngac gctttcntag aanttcccc ccgggganaa gaggaaggga 420

<210> 6646  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 6646

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 aatggactct actaccacac ctcttctct ccgttcgaat actagatccg ctttgcgtct 180

agctcgaaac aacaaaactc tcgtaaaatc tcacattcca tctctcgatt tggtttttatt 240  
gtctccgaag aacaacaacg gtactcctta cccatcacct gtttctctca gttcaccatc 300  
ttctcctggt actcttcgtg agattctcct tttatctcct tcccctcttc gtaaactcgag 360  
aacccgttta agcaatcggt tcgatatgga agctgcggag gctgctgtga cggnacgacg 420  
ggagtaagac gaaaggggn 439

<210> 6647  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-128-Q1-E1-B8  
<400> 6647

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gaagagaaaa ttggaggaag atgataatca gcagcagcag caacagcctg agcgtaaaag 180  
gccagctctt gcaagtgtaa ttgtggaagc cttgaagatg gatagtttac agaggctttg 240  
ttcttctttg gaaccgattc ttcgccgagt ggtaagtga gaggtggagc gggcattggc 300  
aaagcttggc cctgcaagac ttagtgaaag gtcgtctcca aaacgaattg aaggtatcgg 360  
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<210> 6648  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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aattaacaat canttcgaga tcttctgata catctaanaa ggnagaactc tctgtanaaa 180  
tatcaattcc ncctcaagtt gatcaatcaa gacctgaagg tttgagattc gatcgtttac 240

aacctccgga gccagagttt ggtcatgaan atagatttga gtttggtaaa ttcgtagcta 300  
gagaagctat gcttgatgaa agaattattgg actgcanttt ggcttcgtgc agaagagtca 360  
ctgggaagat cgctccaatg annagatatg ttgataacta cangaggaaa ttttg 415

<210> 6649  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-128-Q1-E1-C11  
<400> 6649

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aggagaagaa acttcctgat gttaatctct caaagggtgt taaaggacat actgacatat 180  
cggctgcacc aagagtcgct tctactggac taagggatag tagaagtgt gagggataca 240  
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ttactgaagg aggccattct actcagttgc ttcagaaata tggatctgat gataataaca 360  
gtttccacaa tggttaaggat gcagatgacg ttttaagaga gtcgtctcct gggtttgatg 420  
ttcntgtgga taatgag 437

<210> 6650  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-128-Q1-E1-C5  
<400> 6650

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tggaaggggt agtttgatct ctggaccaca acatcttggt gctgatttgg aaacttgctc 180  
cctacatctg aaacatttag ctgctgctgc aaaagatgca gttgccgaag gtggttctgt 240  
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tacagggtgt cccgctaata gtgaagtccc tgagggtgact ttgatggcat taattacaat 360

gctaccatca actccaaatc tccctgtaga cgccctcct ttgccacctc cttcacccaa 420  
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<210> 6651  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-128-Q1-E1-A3

<400> 6651

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 agtagagaaa tggcggaat cgtgacagag ccgtggtcag tagctgagaa cggaaacca 180  
 agcataacgg cgaaaggatc gagcagagaa ctaagacttg gaagaaccgc tcacaacatg 240  
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 aggtcttaaa gattttctct ctaatctcca agaagtcatt ctcggaacaa agcttgccat 360  
 tctttttccg gccattcctg ccgccattat ttgcacctat tgtggcgtca agtcagcctt 420  
 gggatatttg ggacttagct tgctagggac tggacacctt tggctgangc gagtcaagct 480  
 ttttggcaga atan 494

<210> 6652  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-F1

<400> 6652

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 aggactcatc aacaagatcn gagacgcact ccacattgga ggaggcaaca nggaangtga 180  
 gcacaagaag gaanaggaac acaagaaaca cgttgacgag cacaagagtg gtgagcacia 240  
 agaangtatt gttgacaaga tcaaagacia gatccacggt ggtgaaggta aaagccacga 300

cngagaaggc aaaagccacg acggtgagaa naaaaagaac aangacaaga aggagaagaa 360  
 acatcatgat gatggtcacc acagcagcag cagtgcacgc gacagcgatt aaggtganga 420  
 actgaggang atcgcttgaa gtaaacangt ctggttctgg ctaatattaa ataatgttgc 480  
 cgnaaggtcc taccacctt 499

<210> 6653  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-126-Q1-E1-F12  
 <400> 6653

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 tgatgaaagg atcaactact tcatggagat tttgggggtca aaagaggtgt tgcgcagagt 300  
 cattatccgg aatccgtcac tcatgttgta tgacctcgat gacaagatca aaccgcgat 360  
 agaatactac aaagggttgg gcttttagcca acaggatctt gtcgcaatgt tgatatcgcg 420  
 acccacgttg attccaagaa caaactttaa caatgagaag ttgaatacat tgaagaaaac 480  
 tggaagtcca caaga 495

<210> 6654  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-F3  
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aaatctgctt ttaaatttta naaaaatggg aaantgtttg atgggatgaa acaacgttga 240  
 gaaaatgggtt aaanaataag aagtantgaa taaagaatac angagataag atcgtaaagt 300  
 aaanatagtt ttgagaagag atgagttaga gaaactcatt ctttttcaag ctaaatgccca 360  
 atggtnacgt cgacgggcaa nggagaaaca acttnggctt cttttgggtga ctttctaagg 420  
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<210> 6655  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-F5  
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 gaaccaaaga taaatacata tgccaacttt agagatgatg tacttccccg tataaaaaag 180  
 ctaggctata atgctgtgca gataatggcc attcaagagc atgcctacta tgccagcttt 240  
 gggatatcatg tgacaaattt ttctgcacct agcagccgct ttggaacacc tgatgacctt 300  
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 agccatgcat caaaanacac actggatggg cctggacatg tttgatggta ctgatgggtc 420  
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<210> 6656  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gatggcttac attggaggct tcgttaatct aattactcta aatctttcag attgccagag 180

aatcaacagt tccaccctct ggccatcac aggattaaca agtttgacag agttggacct 240  
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 acttaaaaaa ttgtctcttt tggatttggg cggttacct gtaactgac aagaacttga 420  
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<210> 6657  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6657

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 agaaaatctc cttcagcagt ctccgatatg ggagcttggg caatgaatgt gataagctcc 180  
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 gctaccggat tctctgcttc gaagcatgta cctatgtggg aagcttattt ggttctccat 360  
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<210> 6658  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-G10

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 gctatctatt tgctttggtg gctggacagc tagtgagcag agatgatata ttaccacac 180



gctctggtag gcaggtttcc ctgaaaatct ggactcctgc agaagatcta ccaaagactg 240  
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 agtatgacct ggatctcttc aacattgttg ctgttccaga ttttaacatg ggagccatgg 360  
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<210> 6659  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-G3

<400> 6659

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 aatccagaga cggngaattc gtcacgcctc ttgttggcgg tggtaatggg gacaatgcgg 180  
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 atactatttc ccacccccat gagttgttac gatcaacttc cggagttgac gggaattccc 360  
 cagtgaagtg tatgcatttc gcttggtgaa aggttttcaa cttctcaga aggcattctac 420  
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 gcaataatgg ccttccaaa 499

<210> 6660  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-G7

<400> 6660

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 aaaatgatat agaccttgaa ggggcttgtg aggcttctct agcgtgttca acgtgtcatg 180

tgattgtgat ggatactgaa tactataaca aacttgaaga accaacagat gaagagaatg 240  
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 caagaccaga gctagatggg gtgcgcttgg ctattccttc agcaacaagg aatttcgcgg 360  
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<210> 6661  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-H11  
 <400> 6661

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 tccggttttat atagtttttag gggttgtgta gtagttgggt gaggaagag tagagaaaga 360  
 gagaggggtt aaggcttttt aggggttttta agtggagagc cttgaaactt cttctttgac 420  
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<210> 6662  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-H3  
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aagagttcgg atggcgaaaa cttcgaaatt gacgaagcgg tggcgctaga gtcacanacc 180  
atcaaacata tgattgaaga tgactgtacc gataatggta tccctctccc taatgtcaca 240  
agcaagatcc tttcgaaggt gattgagtac tgtaagagac atgtcgaagc tgctgagaaa 300  
tccgaaacca cggccgatgc tgctgctgct actactacca ccaccgtcgc gtcgggttct 360  
agtgatgaag atctcaagac ttgggattct gagtttatca aagttgatna agggcactct 420  
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<210> 6663  
<211> 496  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-126-Q1-E1-H4

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gtcagcagct accggattta ttctcacggc caacgtcccg gcggcaatag gcgggtggttc 180  
ttcaaagagc accaccattg tgtctttctt gccgatgaga ancttcggtt caaggctagt 240  
agtcagagcg gcggaagata cacctccggc aaccgcctcg tcggatagtt cttccaccac 300  
cgctgctgct gctccggcga aagttccggc cgctaaggct aaacctcctc caattggccc 360  
aaangagagg atccaaggtc aagattctaa nggnaaagaa tcatactggg tacaanaacg 420  
ttggattcng ttgttgcccg ttgattaagg ancccnanga ccggtatccc ggtgggggnc 480  
ccggttcccc ccaagg 496

<210> 6664  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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 ttcaaggcgt tgcgaattht cctactccta ctccaccacc gcantttatg caaccacagc 240  
 atccgattac tacgtttcct gggacatgct taccanaatc tccaaggcca tgggtggtggt 300  
 gtgaattatg ctcaaggatt ccagttgtt gttcctgatt atacagtgtt tgaagtgaag 360  
 accaatgata gagcatggaa nttccttggt gtggcttggg catggggctg gtttctgttt 420  
 ancaaggggc ttc 433

<210> 6665  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-E8  
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 ggatactagt ggtcttgaag gcacagctct taagatggtt gaggtgatc gcaactctaa 180  
 gaactggtgg agaaagcttg aaatggtacg cgagggtata gttgggagtg ttgagagggg 240  
 ggaacgattg aaggcgtca tatactctgc aatttatttg aagtggataa acacaggtca 300  
 gattccttgt tttgaagatg gagggcatca ccgtccaaac aggcattccg agatttccaa 360  
 gacttatatt ccgtgagttg gagcacatth gcagtaagaa agatgctact ccagaagaaa 420  
 tnccttggtg ccccggnaaa tccaaccc 448

<210> 6666  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gatggtgggt cgtctgcgga gttagggttca caatggagtt acattaaaga acctatttga 240  
 atttccaaag ctgatgcatt cttgaaacct ggattgctag agcaagatta acacaacagc 300  
 tgataaaagc gattacttgt ggtactcact aaggacggat ataaaaggcg atgagacttt 360  
 ccttgacgag ggatctaaag ccgtccttca cattgaatct cttggtcaag tggcttatgc 420  
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 tancgaatta 490

<210> 6667  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-D12  
 <400> 6667

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 gacacctaca caagttgcta gccatgctca gaagtatttc atcagacaat ccaatgtctc 180  
 tcgtcgcaaa agacgttcta gtctctttga tatggttcct gatgagggtg ganatattcc 240  
 catggatttg caagaaccag aggaagataa tattcctgtg gaaactgaaa tgcaagggtc 300  
 tgactctatt catcagacac ttgctcctag ctcaattcac gcaccgtcaa tcttggaat 360  
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 ccgctgctg cttcttcgtc ctccaagaat 450

<210> 6668  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-D2  
 <400> 6668

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 tcggnacaag caagagttgt tgaagaccat acaatgtcac aagttatttt acangcagta 180  
 tcaaatingag ggggtactgg tctactgtta atggtgacag gggcaagtca tggtgagtat 240  
 ggttcaanag gaacaggttt gccagcaagg atctcaagga agtttccaaa gannnaccaa 300  
 gttgttgtat tacttgacct tgaaagacag ttcttgcgaa gaganggcga aactccantt 360  
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 g 421

<210> 6669  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-D6  
 <400> 6669

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 agccccggaga tcgatcggat ttttttgtat tttgtatatt tggtgtagat ctaaagtctt 180  
 ttgttcagtt ttgttggtt gttttgctga tctgggtttt gtattatttg gataacagat 240  
 cattaacgat cgtgagactg gaagatcaag gggattcgga ttcgtcacct tcaaggatga 300  
 gaaagccatg aaggatgcga ttgagggaaat gaacggacaa gatccgatgg ccgtagcatc 360  
 actgttaacg aagctcagtc acgaagaanc cgtgggcgng aaggccaccg tngaagttg 419

<210> 6670  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-D9  
 <400> 6670

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atcacaaatt tcccaagaaa acactcacat atatgatgct atatatagaa agatagtctc 120  
 atctaattct ctctctccct cggattcggt agatgtgatc attttttctt gatttttgat 180  
 cagattcttg cgtatagctg tatatatata ccaagatata ctcatcatcg tcatatatag 240  
 attatgtgca gcgtctctga gcttcttgac atggaaaact tccaaggaga cttaacccgac 300  
 gtcgtacgag gaatcggagg ccacgtgtta tcaccggaga ctctccctc gaacatctgg 360  
 cctcttctc tgtcacatcc aacaccatca acgtcaggat cttaacatan accccttcgg 420  
 agatcctttg tgagcatgga cgattcac 448

<210> 6671  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-E1  
 <400> 6671

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 gactcacaga ggtctgcgta aggttgcttg tattggtgcg tggcatcctg ctagagtgtc 180  
 ctacactgtt gctagggctg gtcagaacgg ttaccatcac cgtactgagc ttaacaagaa 240  
 gatttacagg ttgggtaagg ttggtactga ggcacacaca gccatgactg aatatgacag 300  
 gactganaag gatgtgactc caatgggagg cttcccacac tacggtattg tgaaggatga 360  
 ctacttgatg attaangggg tgctgtgttg gtcccaagaa gnanantttg taactcctca 420  
 aaacagtcaa ctntcaatc a 441

<210> 6672  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-E10  
 <400> 6672

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tcgaaatcgg agaattagcc aaacgatgga cgccgacgga atattccgca gcattcttca 120  
 ggggttgatc tccggccttg attccgccat cgaacggcgt ccttaccaca aaaactgcgg 180  
 atgtgctctt cagcataaat caagtggcgc tgggaaaaat caaaatcagc gatggccgcc 240  
 gtcttgtcgc cgccacggaa gctcagagag catctcggtc ccgacnnaa ggtcttggan 300  
 cgaangcaac atcanggcta tgaatctctt ctctcatcg tcgtcttctt ctaatctcca 360  
 atcgctttct tcgncttctt cgctctcaaa tcnngcatca agatttaccg gtgngataat 420  
 gctncgactg nggaaccgat caggatctan taanngacct acnatggacg attgatgaan 480  
 gtgaagatga ttga 494

<210> 6673  
 <211> 501  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-E2  
 <400> 6673

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 aagtagccgc gtttcttgat tctcccattg tcgaagacga agaangcgaa gaaagagaag 120  
 aggaagaaga aggaggtatc gtttcaaattg ccaactttac gtttgagttt gatccataca 180  
 tgatgagcaa agccgaatca ntgaacaaag ctctagaaga agcaattcca gtcggagagc 240  
 cactcaagat tcatgaagcc atgcgatacg cgattcttgc ggctggaaaa cgtgttaggc 300  
 caatactctg ccttgcttct tgcgagctag taggtggcca agaaaatgcg gcaatgcccg 360  
 ccgcttgatc ggttgacgat gatccacacg atgtctctaa tcaaagacga tttgccttgt 420  
 atggacaacg acgatttgcg tcgtggaaag cccacgacgc acaaagtcta ccgnnaaagg 480  
 agttgcaatc cccccggggg g 501

<210> 6674  
 <211> 534  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-126-Q1-E1-E3



<400> 6674

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gggccacggt taaccctngc cgttaccttt cgggtgctga actccgggtg gtaaacaatca 120  
actctectcc gttggtaatt tctcctactg ggaattgctc aagctttctt gggccccgtc 180  
gaccgcttgg tttccctcct tagctttgcc naccgggtg gcgaagccaa ntccaagcgg 240  
ttcgggtctct ctgccgaag tcnggatcat taaaaagctc tcgtcttcga agatcgtgat 300  
gacnttcggg gctcgtcnac accggtctac gccacagccg ttggaccca agaacgggta 360  
antctcggaa caatcgcacc aaatcgccat angtttcacg gttgggaact aaacatcctc 420  
cgccgggtgg gaagctttca gcgggagctt ccatgaaacc cagccgttgc tttcggganc 480  
aagccggctg taaagctggg acgttgggac caancaacgg ggtttaactg gggg 534

<210> 6675

<211> 503

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-126-Q1-E1-E4

<400> 6675

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tgtgggtgtg aaagaaactt atctgtccag catcttgatt cttcagccgc aaaccaagca 180  
actgagaagt ttgtctccca aatgtccttc atggaaaatg tgagatcttc ggcacagcat 240  
gatcagagga aaatggtgag agaggaagaa gattttgcag ttccagtata tattaactca 300  
agaagatctc agtctcatgg caagaaccaa gagtgggtatt gagaaggaaa aacacacccc 360  
aatggtggca cctagctctc atcactccat tcgatttcaa gaagtgaatc agacaggctc 420  
aaagcaaaac gtatgtttgg ctacttggtc aaaacctgaa gttaaggatn aaggtaaggg 480  
cnaatgcaan gtccaggtgg ctt 503

<210> 6676

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-126-Q1-E1-E5

<400> 6676

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atactcccc gaggatattg aatctcatga caaactcata gaactcttcg aaaactggat 180  
ctcaaatttt gagaaagctt atgaaaccgt tgaagagaag tttcttaggt tcgaagtttt 240  
caaggataat ctaaagcaca tcgatgagac taacaagaaa gggaaaagct actggctcgg 300  
gtcacaacgag tttgcggatt tgagccatga ggagttcaag aaaatgtatt tagggctcaa 360  
gactgatata gtgaagacgc gatgaaagaa agatcttacg cagagttcgc ttacaaggga 420

<210> 6677

<211> 497

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-126-Q1-E1-E6

<400> 6677

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gtttccatct atcaaattca gctacaatcg aacctattca tcgaaattag ggtttttttt 180  
ttgggtccctt aatttttccc ttctagtagc ttctgatcct tcgatttcca tggcggatgg 240  
gtactggaac cagcagcgac agcaacatca tcctcctggt ggtcctatga aacgtccccg 300  
ttccgatttc gaagctccat catcaacaat gactatangc cacggtggtg gttattatcc 360  
gcgagatgag gatctcgatg ttcccgatac tagaactatc ggttcagctt acgatcgcta 420  
tctccanagc gtgcaatcag ganaangtgg ttctgtttc catgggaaga ttaggaagaa 480  
gangaagagg aaggaag 497

<210> 6678

<211> 443

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-126-Q1-E1-E7

<400> 6678

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gttgtaggaa gtgatgggtg tgatcattgcg ggttttagctg cctgtggtgt tatgatgtca 180
atcgtctcca ccgcagctga tctcatgcaa gacttcaaaa caggttacct cactttatca 240
tctgcaaagt ccatgtttgt aagccagctc gtgggaaccg caatgggctg tgtaatcgct 300
ccactcacat tctggctgtt ctggactgcc tttgacattg gagatccaat ggtccgtaca 360
aagcacctta cgcagtgatt ttccgtgaaa tggcgattct cggaattgaa ggctttgctg 420
aaattgccaa ancctgggtt ggc 443
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<210> 6679  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-126-Q1-E1-C9

<400> 6679

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gatggttcat caagttcctt cattcgggtc ggattcggac tggatggagc catcaatgca 180
tttatgccat tcaagaacgt taaagcctca tgcttatgat caggtttaca atgcttttga 240
cctactacga accgaaccat ctgtccagaa aatggtagta tcattgtcgt ctgacaaagc 300
agtttgggag gcggtgatga acaacgatgt ggtgcgaaga gattagggac ttgtacaaca 360
atggcataag tcaagatgag gaaaattcag aangacccc tanggagaat aacgcacaac 420
nggatttcat aaa 433
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<210> 6680  
<211> 488  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-126-Q1-E1-A7

<400> 6680

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acaaagacga gctctcaaat ccagcagcaa tggcttttct tctttctaata ctatcatctc 180  
cgtcaatcca tcttcaaacc ggaaaatacc caaaccttaa acccattttc agtcaatctc 240  
tatcgtcttc gtcttctggt agctacgaat ttgtagaaga gaatctatct acactctctc 300  
tattgagcat ccagtctcct cctcttaaag acacgcaagt tcagacaaga cacagttcgc 360  
aagataagca taataaccac gacagagatg aattctatat caatcttggt gtcgctgtcc 420  
gtacacttcg tgaagatttg cctttgctct tcactagaag atnttaattt cgaaatccan 480  
aagggatg 488

<210> 6681

<211> 491

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-126-Q1-E1-B3

<400> 6681

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tgatgggtgc attcagtttc cgacancgat cacaagtga tcgtttgtct tgaggaagta 180  
ttatctcaaa gtttcctttt cagctggaac atgtgtatta ncttgaaaaa ncgggtgtcct 240  
cactccaatc aacagatgaa ncattgnaca gccttgccaa tgaatctcca aacctgagg 300  
aangtattga tgaaccacaa gttgggtatg aggttcaagg attcattgat gggaagtttg 360  
atagcggcta tctggtgacg atganattgg gttctcaaga gctgaaangt gtcctttaac 420  
acattcctca aacgccaagt cagtctcaac aaacatggg aacaccttna gccattgggt 480  
naatcctcca a 491

<210> 6682

<211> 431  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-126-Q1-E1-B5

<400> 6682

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tctggctttc cgaccaaccc ttcccaattc aaagtctcac agttcggaca tgggcagtcg 180  
aatccaacgt ttctgataga ggttggtca gggagttcct tgaaacgata cgttttgagg 240  
aagaagcctc ctggcaagct tcttcaatct gctcatgctg ttgatcgaga gtttcagggtg 300  
cttcgggctt taggtgaaca tacacagggt cctgttccta aagtcttctg cttatgcact 360  
gacctgctg tcattgggac tgctttttac attatggagt ttatggaagg acgtaatttc 420  
antggattca a 431

<210> 6683  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-126-Q1-E1-B6

<400> 6683

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anacagagag cagaaagaac caaaatcagg tccgatggct tcagccttgg agatcacaca 120  
gattccatgc aagctctgtg accataaact ggtgtatggg acaacacgca ggtctgtagc 180  
gtacagacca gctatgttgt caatggtggc gattgctgcg gtttgctct gtgtggcact 240  
tctgtttaag agttgcccg aagtgtctta tgtgtttcaa ccgttcagggt gggagttatt 300  
ggactatgga acaagctgag tgtaagtcta ctttgaaaga tcttctaaga tatatatatg 360  
aatgttactt atataaaacc catagagggtg tgatttccaa tatgttac 408

<210> 6684  
<211> 400  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-126-Q1-E1-B7

<400> 6684

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tactgctgtg cagctctcat gacaaaggtt gcaggtccta catctgtgat accagttacc 120  
gacattccaa ttgccttgac cggtttaaga aattgcattc tgaatccgca aatgacccta 180  
ctcccgaggc gaacttggtt tcaagggaac ataataacga atctctatac gagcatggta 240  
cagccagtcg aagcagtttt caccgtgagt ctggaaaccg aggctcttct tgggattccg 300  
aatcactgag gaggaggagg agagttgagg aagaagttga gtcagaagat atcacaaatt 360  
tgaaatgtcc tctatgccgg ggtactgttt taggatgggn 400

<210> 6685

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-126-Q1-E1-B8

<400> 6685

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ggaattaact gatctcgtca atggcggagg tggaggagat tgcgcacgag gagcagaata 180  
tcgagaagag ggagaagaag aaaggtaaac acgagaagcc gaagccatgg gatgatgacc 240  
caaacatcga ccgttggaca atcgagaagt ttgatccggc atggaacccc actggtatga 300  
ctgaaaccag cacgttctca acactctttc ctcaatacag agagaagtat cttcaggagt 360  
gttggcctag agttgaatct gctcttaagg agtacggtgt cncctgcaag ctcaacttgg 420  
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<210> 6686

<211> 409

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-126-Q1-E1-C10

<400> 6686

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tcacggaagc aaagaatata attccaaacc ctaatcccga tcatccgtct ttcctctccg 180  
gtttcaaaat atgagtaatc agaagaagag gaattttcag atagaggcgt ttaagcatcg 240  
agtcgtttgt gatcccaaatt acgctgataa aacttggcag attcttgagc gtgcgatcca 300  
tcagatttac aatcaagatg ctagcgggtct caagtctccg angaacttta cagaaatggg 360  
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<210> 6687

<211> 452

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-126-Q1-E1-C12

<400> 6687

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tgttctgagc ctcttagtag tgaccgcagc caatatattt atttttgtaa tttaaaaact 180  
cactattaca ggcaaattag taaagttggc gaatcaacgc ccctgaaaga tttctgtttt 240  
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ctgtagatag attagatgga tcaaactcgtt aatgtggatg aagtttcaag agctgggcta 360  
aacangccct ccctaagatg tactatgatt tctacaatgg angancaaga ggattaacac 420  
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<210> 6688

<211> 501

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-126-Q1-E1-C2

<400> 6688

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acattggtat tgggtgctgga gtggaatcaa tgtcaactga tcatattcct ggaggcggct 180  
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tgggaattac ttctgaaaac gttgcagaaa ggttcgggtgt cacaagagaa gangcaagat 300  
atggctgctg tggagtctca caaacgcgct gcagctgcaa tcgctgtctgg taaactcaag 360  
gatgaaatca ttctgtttgc tactaagatt gtggaccctg agactaaagc agagaangca 420  
atcgctgcat ctgttgatga cngtgtacgt ccaaactcaa acatggnaga ntttggaaan 480  
gcnggaaaac ggtctttaac a 501

<210> 6689  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-126-Q1-E1-C3

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gcttgatagg tatcagagc taggtcaaca cgcttttggg gaaaagcttg ggcctatgga 180  
tcgtcgtgcc gcagcagctt atcgtaggag tcggtgttga catcgtttat atggtcacag 240  
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tcaactctat ctccatcatc tcaactggcg cggctgttat gtcccttaact tactcaacta 420  
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gcat 484

<210> 6690



<211> 551  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 6690  
  
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 ctccgggatnt ctccggggttg aatgtctacc aaagcttttc aatcggaggt cncctcaaggg 240  
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 aaggaactga atgggccgctc acatccgaag ttgaatcctg gctaattgat aagaacaaaa 480  
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<210> 6691  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 6691  
  
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 tcattcatat ccaacaaaaa atatcaatga tgtcttttgt cgcaaacttg gccatcaaga 180  
 gatttgacca tgcttccacc gtgtatgttg aagatgtggt agatagttct cgagtggcat 240  
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 tgtttcttat tagtatatga ttgtaattta ggaggaaaca aaaagacaga gatgataagg 360  
 taatttanat atctagctag gccatgtatg tactaaatag tttgggtgagt cttcttatag 420

atgaacaaac atggtttcca tagatgtnta ctgtgtgggat tgatantgtc ccctaaattt 480  
 tggaa 485

<210> 6692  
 <211> 394  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6692

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 atggcgataa naanactggt tggttcactc acagaaagct tgttganaag tatataaagg 180  
 atgcaacaac tttaatggca agtgaggagg caaacgacgt cgcttcagct cttcanttac 240  
 tagacgcagc cttanctatc tccccgcgtt tggaaactgc gttagagctc aaggctanat 300  
 ntctctctct cctccgtcgt ttcaaggatg tcgccgatat gcttcaggat tatatcccca 360  
 atcttaaact cgacgacgaa cggattcgcn tcat 394

<210> 6693  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 gggtataaca acgttgatgt tgaagctgcc aataagtatg gaattgctgt cggtaacact 180  
 ccgggagtgt tgactgagac gacggctgaa ctagctgctt ctctttcctt ggctgctgca 240  
 agaagaattg ttgaagccga cgaattcatg agaggtggct tgtacgaggg atggcttcct 300  
 catctgtttg tggggaactt acttaaagga cagactgttg gagttattgg gagctggacg 360  
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447

<210> 6694  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana  
  
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tcaagtgctg ctgttcttcc agaaggttgt tgaagaatcc tgagttaaaa tgttccttgg 180  
agaatctctt tgaaatccag gctttgagga agtggtttgt ttcagggttt gcagctatct 240  
tgcttctctc tcaggcaggc cagggtatan cgttgatct ctcactggt tatcagaaca 300  
tttgccaact aggagtgct gctgctgtgg gagaaaacaa gctgactccn tccatctgat 360  
ggtgactcgg aatcaatgat gatgatgatt atnanaggca tgactgctan gaactttgnc 420  
cccgtaggt 430

<210> 6695  
<211> 479  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 6695

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aaaccngct atcaatcaca cacagaagga tcntccagt actatttatn aaaagtgaat 120  
tgcattgcat tgactggaat cccgcaggct aattttcgct catacaagct acacaatcga 180  
gacagttgaa gctgaacgga tatcagttga tcatgttgca catcttaaac catctgacgg 240  
aggctcagca gcaaccagtg tggctgctca tcttactggg atacatagtg ccatcaagat 300  
gcttaatagc agaatcagag tgctttacca aaatcttgct gcaatgcaga aaggtgataa 360  
atcttgtagc aactcagttc tgagacaagt atctagcctg ctaagaagat tgctgacct 420

ggaatcagag agatttcaag ataatttcct ggatggagta caacgacaaa ttactaatt 479

<210> 6696  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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gggaagcttt gttacgtctt ccatgcttct ctctgtgcc atgtacgacc aatcctttgt 180  
tcccttcatt cgcaagaaaa ccggaaaccc tagagggatt actttactcc aaagactagg 240  
ggtaggggtt gcgatacaaa ttgttgcaat cgcgattgct tcggctgtgg aggtcaagag 300  
gatgcgcgtg ataaaggaat ttcacataac tagtccgaca caagttgtgc ctatgagcat 360  
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ggnttgcttg agttttt 437

<210> 6697  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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gaacgataaa gagtgtcctg caagcatggc aaagactttt gtggttcaag agatgtatga 180  
tgcaaaaatg gttaatgttg tcgaaggatt gaagctatac gacaaaatgc ttgacgcaaa 240  
cgaagtttct caactcgttt ctcttgtaac caatctgaga cttgctggaa gaagaggtca 300  
acttcaaagt gaggcataat tgggttataa acggccaaat agaggacatg gacgtgagat 360  
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<210> 6698  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6698

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agtttctcaa agagtaaaga aacctgaggg gtttggtagg cgaaaggaga ttaaggaaga  180
tgtgaagtta aatgaaagat atgatttgtga acattgtggg aggagaaaga aaagttctga  240
gttgagagat gaatctcggc gtggttctaa attggttact ggtgagtata ttggaaaaag  300
ttataggggg gatgaagaaa gagaagttcg gccagaagg agaaagagtt cgagttgttc  360
atcgtattat tcccttgctt cttcagggga gtttgagagt gatactgaag atcaggagga  420
ggatgtagag atttatcgcg aaaacgtgag aagttcagaa gaagaangtt gttgatcagt  480
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<210> 6699  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6699

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nggaagctcc aggacacgtt ttccangcga caaggattaa agaagattat gcaaactgat  180
gaggaagttg gcaaaatagc aatggcagtc cctcttcttg tttctaaagc tttggagctg  240
tttttacaag acttgtgtaa tcacacgtat gatgtaactc taagccgagg tgctaaaact  300
gtcaacgcct ttcatttgaa gcagtgtgtg caagcgacta atgtctttga ttttctaaga  360
gacactgtcg ctaaagttcc tgatttgggt ggctcagaca ctgaagacca atcagctacc  420
  
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anaagaagga aagttgttga tggaagtagt tgcaacgatg aagatatgat aaaagaccac 480  
tcaaatgcat gagg 494

<210> 6700  
<211> 486  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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agaagtgcct tcttcggtac aagaaccggg cttttctcca caccacttc tgcttttctc 300  
anaatgggca ccagaantgg cggcgggcgt tctagatacg cggttggtcc ggttcgtgtg 360  
gttaacgang aaggttgttg gaattgattt gggtacgact aactctgcag tagcngctat 420  
ggaaggangt aagcctacga ttgtgactaa cgctgaaggc cagaggacaa cgcccttctg 480  
ttgtgg 486

<210> 6701  
<211> 481  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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ttcttggtga gacactgttt cttcttggtc tgtgattttt gttttgttct cattaggacg 180  
ttctttatcc cggttcagat ttactggatc gtcattttct ctttgaaatt gtattttttt 240  
gttccttttc tgggtatgttg tgaaagctat gagattgctg taagaatcca agactgacca 300

acatgtttcc cctgtgctcg gccacaagct gccgttacca ttctcagatt ttatttcctg 360  
gcaattggcg aggctgttct tccttcagga gagagttgat tcacagatac agttcagggtg 420  
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<210> 6702  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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angaattcga ttttgagttc tnaggaaca ctaccggcga gccntacaga ntccatgacc 180  
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caccactgag tttcacactt actcaatcct ctggagtaaa cgcagtgttg tnttcatggt 300  
agactaaaca ccgattcnag ttcangaana atcttgaang agaaagggtat cccatttgct 360  
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aaggaggtct t 431

<210> 6703  
<211> 485  
<212> DNA  
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 ggngaacaaa cctacgctcc aaganttgtc tttgaaggtc gagaagagcg tccttcgtta 420  
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 ggaga 485

<210> 6704  
 <211> 455  
 <212> DNA  
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<210> 6705  
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 <213> Arabidopsis thaliana  
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caagacgttt ttgaacncca cnggggtatga catggtgatg gcttataagt ttcatagaaga 420  
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<210> 6706  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<210> 6707  
<211> 435  
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<213> Arabidopsis thaliana

<223> unsure at all n locations  
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ttgtttctctc cggcgggtgac ctaatcgatt ggctctgcaa gttgggtgcaa cctccttata 240  
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 gggaagatcc atacagtaac tacaaactcg ccatggaggg ttttctctcn aangttccga 360  
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<210> 6708  
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 ttggaancta cggggtaang ttagtgtttg atgacttgca tanaacaggg gatatatcca 360  
 tgggattagg ttctacgagc ttgggagcaa taanttttgg gtcttannna ggaanctata 420  
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<210> 6709  
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 catgaattct cttatactcg gtgctgctag aagggttcgtg gggttgcatt tgagagtttc 180

agtgaacctt ttgcaaaatg aatctttctc ttcgtattcg ttctcttctg ctagtgctgc 240  
 tgatgtgagc cctaaagggg agacctttaa atcctcgtec ttccttgatt cactgcggtt 300  
 agctacaaaa ctactgaca aggggaaatt ctgattccgt tctggatctc tcaagaagtt 360  
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 gtttggtgga gatccgtgtc caaatgtgat gaagaaactc gcggtggaag ccgtttgtgc 180  
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 tctagctcct tattttatca cggtggaag ttgtacaang ggacgcanca cgccgttcan 360  
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<210> 6711  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-123-Q1-E2-D4  
  
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 cttgttattt tcctccgtta accatctggt atagggtgct gctggactct ttagatggca 180  
 gactctcgga atggtaatgc ccgagccccct cctagtggag tgcctccaaa agctgggaat 240  
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gaagaagcac agtgcagact tatggggatc tgccgacgct cttgcattgc aaccctcct 360  
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 gtaatgaagt tccaagatac aaattaaggg ttttaaca 458

<210> 6712  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 cacggcggga ccagacgctc accaagcggg ggcgtttaga tccgacagcg atttttctct 180  
 gatcgagaat tgcgagttcc ttgggaacca agacactctc tatgcccattg gtcttcgtca 240  
 gttctacaaa aactgtcgta tccaaggaaa tgttgacttt atctttggga attcagctgc 300  
 tgtcttccaa gactgtgaaa tcctaactgc accgcgtcaa attaaccctg aaaanggcga 360  
 gaaaaacgca gtcactgccc aaggaaggat tgacnecgcn cangtccacg gggtttccgt 420  
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 cccta 485

<210> 6713  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-E2  
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 tttagggtta tggctgctga tagcagatct ccaagagacg ggaagcatct tgaggtctta 180  
 gggtacttca atcctttgcc aggccaggac ggtggtaaga ggatgggtct caagttcgat 240

cgaattaagt actggttatc tgttggtgct cagccatcag acccggttca acgtctccta 300  
 ttcagatccg gtttacttcc tcctcctcca atggtggcta tgggacgtaa ngggtggagc 360  
 acgaagacac acgcccagtt gatccgatga ctggtccgct atgtggatgc aagagaataa 420  
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<210> 6714  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-E4  
 <400> 6714

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 nnnnnnnnnn nnnnnnnnnn nnnngaccag attcaaaatt gcgtagcgta ctaattcaat 180  
 atagagagaa gttagatcaa aagaagaaca cgaaactctg actgtgtctc tctttctctt 240  
 cgtgtgtttc tatatttata tataanaaga caagatctct ggtctggaat tagaagaatc 300  
 ttatttgggg ttttttctta ggattaagct ctaatggcan gatcangtac agngagcgga 360  
 cttnagnagg aganntctac ttgggcagtt ngctggttgt ttgctttgtc ctactctgta 420  
 tttcnga 427

<210> 6715  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-E6  
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 ggagaccgga gactgcgggc ttacgggaaa gagagatgag atcatgttgt tcggagttag 180  
 agtcgtgggt gatccgatga gaaagtgtgt gagtttgaac aatctctctg attatgaaaa 240

gtcttctccg gaggatgaga tccctaagat agtcaccgcc ggagctggag atggtgaaga 300  
taanaacgaa acggatgcga cngtgattgt cgctgacggg tacgcctccg ccaatgacgc 360  
tgtccaagat ttccgtcttc ttccggcggg gangaaacga ngggttccat gggacngaga 420  
ancgaanacan aaagaggntc gtggantggg gttgccaa 458

<210> 6716  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-123-Q1-E2-F2  
<400> 6716

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gaactccagt tgggtgggtg ggtacatta ggcaaagaca tagccaaggt tatgcttctg 120  
gtggtgatga tcttgaggat gatgcttgct ctaggccaca gcctttttct ttaagagaat 180  
cctagaagta aaacctgggt tgagattttg gagaatgtgc tttggattgc atctgctgtc 240  
ttcattgtct attttggaga caggcactct aatatgatac atattctctt accgtgatgc 300  
tcgggatcaa aaggatgcct ttgtatttcg ggatggtggg aatagctgtg aacattataa 360  
tcataatcta cganagcatg ttatcttggg ggcaaggaga angnttgatg agaaatggga 420  
actgntggag taccctctgt ggcctanatg gggct 455

<210> 6717  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-123-Q1-E2-F4  
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aatggcgacc accgcattct catctctccc ccgtaattac tccttcacaa ctccgcgacc 180  
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ccgtcgagta gctctcactt accgattgga ccagaattcg aagcagagaa gtggtggaaa 300  
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 ttgggtgccg gtggtgcccg ttatcggcgc ttccgaaagg tgaacggcga gtggttaatn 420  
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<210> 6718  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-F5

<400> 6718

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 tttgaagatg gtgacctagt tgttttctca gaagttgagg gtatgacaga attgaatgat 180  
 gggaaaccaa ggaagataaa aagtacacgg ccatattcat tcacccttga tgacgacact 240  
 actaactatg gaacatatgt gaanggtggt attgtcactc aagtgaaaca gccaaagtta 300  
 ctgaatttca agccattgag ggaagcgctt aangatccan gggattttcn atttagtgat 360  
 ttctctaant ttgatcgggc cncnactcct tcacttagca ttccaggcaa 410

<210> 6719  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-G7

<400> 6719

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 ccttccttgt tgtcatcgtc ttctcagtc tctcaatttc ttccagatt cccaacgcg 180  
 actagattca atgtaactcc acggagcaga gccgccaccg tcgtcgcggc atccgtcacc 240

gacctagccg gggtcgacag tacaacaatc gccgtactcg gtggaggatc cgtagcagca 300  
 ctgcggcgga tggtttcctt aacggatccg ganaggaggc ggaaattgca ggcggaggaa 360  
 gttggcggag gcgataagga ggttgtgang gagtatttca atagcacggg gttccaagag 420  
 gtggaggaag atctacggn aagaccgatg aaagtgaatc cgagtacaga agggatattc 480  
 cactcgggtca tgctaangac 500

<210> 6720  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-C1

<400> 6720  
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 aagagttggc tttcttcttt cccagggagg agaatttgca tttgttgtgt tctctctagc 180  
 caacaggcta ggagtgttc caaatgagct gaacaaactg ctcattatcg tagttgtttt 240  
 gtctatggca ttaacacctt atcttaacca acttgaagg aaaagccgcc gattttcttg 300  
 atgagagact tgatcccggg agagaaaata cgtgaagatg tnaacttcca atgttaagtg 360  
 aatcaattgt naacattggn tttggacaaa tggggtcang gttctgggcc aaatttttgt 420  
 caacgccccaa ttgggtctca agataagtn ttct 454

<210> 6721  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E1-F2

<400> 6721  
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 tgggtggtggg tacattaggc aaagacatag ccaaggttat gcttctggtg gtgatgatct 180



tgaggatgat gcttgctcta ggccacagcc tttttcttta gagaatccta gaagtaaaac 240  
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tgagacagc cactctaata tgatacatat tctcttacgt gatgctcgga tcaaaaggat 360  
gcctttgtat ttctgggatgt tgggaatagc tgtgaacatt ataatcataa tctacgaaag 420  
catgttatct tggagcatga gaaggtttga tgagaaatgg ggaactgtgg aagtatccct 480  
gtggnc 486

<210> 6722  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-123-Q1-E1-F5  
<400> 6722

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gagaggcttg agtttgaaga tggtagaccta gttgttttct cagaagttga gggtatgaca 180  
gaattgaatg atgggaaacc aaggaagata aaaagtagac ggccatattc attcaccctt 240  
gatgaggaca ctactaacta tggaacatat gtgaaggggtg gtattgtcac tcaagtgaag 300  
cagccaaagt tactgaattt caagccattg agggaagcgc ttaaggatcc aggggatttt 360  
ctatttagtg atttctctaa gtttgatcgg cctccactcc ttcacttaac attccaagca 420  
cttgatcatt tta 433

<210> 6723  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-123-Q1-E1-G1  
<400> 6723

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aaaacacggt ggtgctacgg gcggagcaca agaatgaaga aggccggaaa tctgttgata 180  
 agttcgaagt gaagacacgt aatccggaga cgatcaagag cgttgagcgg aagcttatgg 240  
 agaaaggtgt tcaacggatg gatcgtcac cttccgatgg gattcctctc aggcgaccac 300  
 catcgaagtc aggtcacggc gggaaagtac acgtgggaag gacctgatcg gatggaggat 360  
 tacgaagatg cagccggatc caccggcgat ggatgaanga gattctaatt acgacganga 420  
 acagggtgaa gaagattggt gatgacgtgg ccgttgaacc ttttgaaagg aaaaggtnaa 480  
 ggtgggc 487

<210> 6724  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E1-G7  
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 cgactagatt caatgtaact ccacggagca gagccgccac cgtcgtcgcg gcacccgtca 180  
 ccgacctagc cggggtcgac agtacaacaa tcgccgtact cggaggagga tccgtagcag 240  
 cactcgcggc gatggtttcc ttaacggatc cggagaggag gcggaaattg cangcggagg 300  
 aagttggcgg aggcgataag gaggttgtga gggagtattt caatagcacg gggttcgaga 360  
 ggtggaggaa gatctacgt gagactgatg aagtgaatcg agtacagaag gatattcga 419

<210> 6725  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E1-H1  
 <400> 6725

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tccagcttca gatacatatg tgatctttgg tgaggccaag atagaggatt tgagctcgca 180  
gctgcagagt caagccgcag agcagttcaa ggctcccaac ctgagcaacg tgatttcaca 240  
gggagaaaca tcgaagtgct gcaactgcag ctgctgttca agatgatgat gatgaagagg 300  
tanacgaaga gggagtagan ccaaangaca tcgaacttgt gatgacccca agcanggatg 360  
tctaaagcca aagggcagtt aaaggcgctt caaacctcgc ctaatgggag atatagtctc 420  
tgcccatcaa gggagct 437

<210> 6726  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6726

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ttggtaaaag ttgtattgtc ctctgatttg tacgtgggtc gtttgacgct acatctaagg 180  
taactgttgg agcctcgctt ttgtcccaaa ctatagcatt gcaagactct accacagtga 240  
agtttgaaat atgggataca gcaggacagg agaggtattc tgctcttgca ccactatact 300  
accgtggagc tggagttgct gttatttgtt atgatataac aagccctgaa tcgttcaaga 360  
aagcacagta ttgggttaag gaactgcaaa agcatggaag cccagatatt gttatggctc 420  
cggttggtaa caaaagctga tctacatgaa aaaagagaag tacctactga ggatggaatg 480  
gg 482

<210> 6727  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-123-Q1-E1-H5

<400> 6727

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 gatattctct tccttccccg ttaagccttc ggctagatat caatggaaaag gtcgtatagc 180  
 aatgcaagaa tggccaacag tttcacgttc tggaatgatt gtgttgagcc agaggattta 240  
 tnaagaaatg tggatggatc ctgcgggtcag tgctgaatgg attgangttg ganagactaa 300  
 angccagaag gttcacctct caagggatcc tgatgggtcaa gccttatctt acacaagacc 360  
 ganatgaagg ctgtttctga tataactgtc cggganggaa ttttgaantc caatccttgg 420  
 gattccgg 428

<210> 6728  
 <211> 399  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E1-H6  
 <400> 6728

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 gtcattgactg gcaaacagct tttgttgccg ngctgtattg ggatctgtat gtcctaaagg 180  
 gattacattc tgnangaana tgctttanat gtcanaattt tgagtatcaa agtaccgcgt 240  
 ctgcttcana attgggatct tgccgggttg atgttaacca gntaaataga ccagacatga 300  
 atgcacgatn actccgtctg gagatanagt caatccngtt aanggcgcta taattttctc 360  
 aaacattgta acancccggt gtcccctact taagcacia 399

<210> 6729  
 <211> 407  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-A4  
 <400> 6729

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gttgacaatg atgcggtgat tgctcagttt tatcaagacg aattgtctag agttgctcga 180  
gccgaagcat cggggatcaa tagtcttagt cctacttctg ttgttgacac agactggcct 240  
catcctcatc aaggacagga aaatcaaggg gaagccattg atattactca ggaaagtgat 300  
attcttcata atcataacgg taacatggaa gataagaatg ttgcaaggat aagatttgaa 360  
ggagggcaaa gttcccatct cgtgatgatg actcaatttg gtcnngt 407

<210> 6730  
<211> 500  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-123-Q1-E2-A7

<400> 6730

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gaacctcacg tgaccgttct tcagatcgga tcttctgtgt gtaaccgtcg aggaggacnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngaaac 240  
actctaattg cgacaatgag caaagctcaa aggaccaaac ccacttctgg atctcagcgt 300  
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accgggcaaa ttgggattgc cttatcanac aaaccctaan cgacnatttc ggtgtggtct 420  
cctcgtgga aggagagagc antccgtttg tcngagaagt acntgtantn gggaaanagn 480  
attgaagtgg ccctggcana 500

<210> 6731  
<211> 444  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-123-Q1-E2-B12

<400> 6731

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tgggtcgcca aaacattgtc gtcgtggttg cctcgtctt catggccatc attggccttg 180  
 ccgcagctgc ctctctcca tctcttcag cgtctccctc caaagctcca gctgcctcca 240  
 aaaccgatca tgtcgaggct ccagtcaccg atgaccaa at cggaaccacc gatgacgatg 300  
 cagctcctac tcttggtgac ggtgacgttg cagtggctgg tctctagga agtgactcct 360  
 cgtacgacaa tgcgcctaca ggctctgctg attctgccaa aagcgggtgcg gcagctcttg 420  
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<210> 6732  
 <211> 496  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-B3

<400> 6732  
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 accgtctctt tggcagcacg aatatctcct ctcgctcggg aatacatatg tgaaagagga 180  
 caacgtcgag agagttacgt tattgaagca ggaagtgagt aaaatgctca atgaaacgga 240  
 aggtttactc gaacagctag agctcatcga cactttacaa aggcttggag tttcttacca 300  
 ttttgaacaa gaaatcaaga agacactaac gaatgtgcat gttaaaaatg tgcgagcaca 360  
 caaaaaccgg atagatcgaa accgatgggg agatttatac gacgancgcc cctttgagtt 420  
 ccgactccta aaggcaacat ggtttcagta tcgcacaaga tgtttttgac cggnaatatt 480  
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<210> 6733  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-123-Q1-E2-B6

<400> 6733  
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gggtcgatgt gttgaangaa aacgttggag catggccttag caccaaaatc atggacggat 120  
 tacttgtatc taaccgttgg aggtacactc tccaatgcag gaatcagtgg tcaagctttt 180  
 caccatggtc ctcaaattan taacgtcctt gagctcgacg ttgtaactgg gaaaggagag 240  
 gtgatgagat gctcagaaga agagaacaca aggcatttcc atggagttct tgggtggatta 300  
 ggtcaatttg ggatcatcac tcgagcacga atctctctcg aaccagctcc ccaaagggtt 360  
 gagatggata cgggtattgt attcgagctt caaagtgttt acggaggacc aagagtactt 420  
 aatctcaaat gcatgggcaa ttaaagtttg attacgtgna agggttttgt ganntgngga 480  
 cgaaaggacn cgtcaaca 498

<210> 6734  
 <211> 384  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 6734

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 gtttcccagt gttagctact gtgacgacca aacgatcctg tatgaatcgt ttgacgagcc 120  
 ttttgatggc cgctgggtcg tttcagagaa agctgaatac caaggtgtgt ggaagcacga 180  
 gaagagtga gggcatgatg attatggact tctagttagt gagaaagcta agaagtacgg 240  
 aatagttaaa gagcttgatg ttgatgagcc tctaaacctt aacgaaggaa ctgttgttct 300  
 tcantacgaa gctcgtttcc aagaanggct tgagtgtggt ggtgcttact taaagtatct 360  
 tcgtcctcaa gaagctggat nggt 384

<210> 6735  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-A1  
 <400> 6735

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cagttctttt aatctcttag tcagcgtaat tgggtagaag aaaatatcca gtctcgtgaat 120  
 tgggtggaag acgattaaga gtttctaaac tatcttgctc tattcgggta tcgttaagag 180  
 tttctgtgag taatggggtg aagctggata tcaaataatt tagtggttaa aagttcaact 240  
 tgatagtaag atgtggattc agttatctgc ctgataaggt tattaagatt tgctagcaca 300  
 ggaaatacta acactgtcat ggattcaatc aagttcatan tttctttgga tgtcatatat 360  
 gaataatagg ttgcanattc ccaatccnag angttaaagt gtcaacctta aganta 416

<210> 6736  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-A10

<400> 6736  
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 gtggcatgta cacagcgaat acaatggctt ctgctatcga agcaatggga atgtcccttc 120  
 cttacagttc ttcaatacct gctgaagacc cattgaagtt ggacgagtg cgcttagcag 180  
 gaaaatatct tctagaattg ctaaagatgg acttaaaacc ccgtgacatt atcactccaa 240  
 aatcacttcg taatgcaatg gtttccgtca tggcccttgg gggatcgaca aatgcagtat 300  
 tgcactaat tgctattgca aggtctgttg gtttgagatt gactcttgac gattttcaga 360  
 aagttagcga tgcggttcca tttctagcag atcntaaacc cagtgggaag tatgtt 416

<210> 6737  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-A11

<400> 6737  
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 atcaagcagc tgctgcagca ttcttccttt tcgcttttagc cgtcttctcc aacttggagc 120  
 tctcagcttc ttcaactgtc agtggcaaga tctcttgcc tgaactgccac cgcgatttcg 180



actttctcagg cattaaggctc ctcccttaaat ggcacggaga gaagaaacaa ataaccgcgg 240  
 tggcagctgc agacggatct ttccggtcag tgcttccaac ggctgacaaa aaaggctcca 300  
 taaattgtcn tgcaaagctc ttgggangcc ctgangcanc tctatgctca cananacaac 360  
 ntgggtctcc tgaattggctc aaatcnaaan cacgattcca angttttaaa 410

<210> 6738  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-A2

<400> 6738

acgcgtccga gcaatttcac tcttccgaga acaaccctag attccgatga tgaggggtct 60  
 cgtttccggc gccaaagatgc tatcatcaac cccatcgctg atggcgacaa gcatcgccac 120  
 tggtagaaga agctacagtc tgattccgat gggtattgag cactcatcgc gaggagagag 180  
 agcttacgac atcttctctc gtttgc tcaa ggagcgtatt atctgcatca acggtcccat 240  
 taatgacgac acatctcacg tcgtcgtcgc tcagcttctt tacctcgagt ctgagaatcc 300  
 ttcgaagccg atccatatgt atctcaattc ccctggcggc catgtcaccg ccggtcttgc 360  
 aatttatgat actatgcagt acattcgttc tcctattaan acaatttgtt 410

<210> 6739  
 <211> 405  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-A4

<400> 6739

agactagatt cgatgtgttg gtgaagaaga tctcgacttt gttcaaaatt ccaatttcgt 60  
 tcgcctcaaa gatcattctc tcattctctc gactttgatg cgattgatta aatatgggtg 120  
 atacggttat tcccggagat atggcttgtt tggatgcaga tttgttgag cttcaggaaa 180  
 tgtcttctt tggttctaat tctaaacctg gattcactca gaagctcttc gaccagtggc 240  
 tttctcttcc cgaagctcag cgacagggtg gatcattgct taaggatgct gtagctggag 300

ctcctatcaa tgttactggg aagtgcacgc ggttctaatt ctgccactat accatctatg 360  
 tttcctgcgg ggaagcgctc ctcctctttc aacaagaant ttgtg 405

<210> 6740  
 <211> 393  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-A9

<400> 6740

acgcgtccgc ccacgcgtcc gcggacgcgt gggcggcgctc aacgggcatt gaccttgctg 60  
 cagattttcc tctctagtct ccgtcttcta ttaccagatc gagctttgtt cttcgagctt 120  
 ctcatctctt tgttcaatct caaagggttt tgangtatca gcaaagatgg gtgacaatct 180  
 tatggacaaa gttaccgcat ttggtgagcg cctgaagatc ggaggttcgg aagtgagcaa 240  
 caagatcagt gctggtgtga agctcaaag agctttaaag tgaanggaac nttttcaagg 300  
 tccaaacca actgataaaa tagtccgaag atgctactac tgagaatcta gaaggaacct 360  
 gactgggata ttgaatttgg gnaatttgtg ata 393

<210> 6741  
 <211> 394  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-B2

<400> 6741

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 aacctacctt caggattcag cttttctcag gttttcagtt ggattcagat agcagcttgt 120  
 acttcttcta gataatcggc gacacatatg gatgattggg aggccngga ctttcaacca 180  
 cttccctcaa aagttgaact gaaaagtaac tgggatgatg aggatgtgga tgagaatgan 240  
 atcaacgact cntgggagga ggaagatgta tctgctccgc cacctatagt aaagcctgct 300  
 tctgagaagg ctcaaagaa accangcagt agaaagctgt tgaaaagaag gttaaantctg 360  
 ttgaagctcc naanaggaac atccagggga agaa 394

<210> 6742  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-B3

<400> 6742

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ngttgccagg cccggtcaaa caaccgggtc gnnccacgcg tccgatggaa atcgtcggcg 60
gatggtttag actttagaga taacagaaga agacctcatc tttagagtcc ggagcgaaat 120
taatggcggc catagctcgt cttccactaa ctcatctctt tccctccatc ttcaatcctt 180
catccttctt ctctcagtct ctctcttttc ctacttatct ccatcgctct ccctttcgtt 240
ccttctcttc cgtctctcca atcctctgca cctcccatcg cgattcgaga tcgccgggga 300
gtgattctaa tgcgtcgatt gttggggatn ttctggatta tcttaatgaa tcctggacac 360
agtttcaacg cactgctga ggcgaaagna gacaagcttt tggctgctgg gtttgatccc 420
ccagtgaaaa acgaaagact gggaatcctg aaacctgggt ggggcgttac ntcctt 476
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<210> 6743  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-B4

<400> 6743

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ggtcanaata tcccgggccc acccacgctt ccaantttct ctctctngct tctacgcttc 60
ttcttgtggc gtagattgtt atagagaggg aaacccaaan agggaatctc aaaagctcga 120
gttcacagat ttgaccgag tctttaatcc aatctgctgg ttcgttttcc acattcaaac 180
tcgactcttg aatatcaaata cagaagtctt tgctatggct gctaccgctg ctgcttctgt 240
tgtccgttac gcacctgagg atcatactct tcccagccc tggaaaggcc ttatcgatga 300
tagaactggg tacttgtact tttggaatcc tgagaccaat gttactcang tacgagaaac 360
caaccccttc tctacctctt aagttttctc ccgccgtttc tggtanctct tccgttcang 420
ttcaanaaac tgaagcctaa gntcctccca agg 453
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<210> 6744  
 <211> 405  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-B5

<400> 6744

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ggg'gcgcagaa gttgatctca acaagtgtga gccttggcaa cttcccggga gagctaagat   60
gggagagaaa gaatggtact tctttagcct ccgtgaccgg aagtatccga cgggactgag   120
aactaacaga gcaactgagg ctggttactg gaaagctacc ggaaaagaca gagagatctt   180
tagttcaaag acttgtgcac ttgttgggat gaagaagact cttgtctttt acaaaggaag   240
agctccgaaa ggagagaaga gtaattgggt tatgcatgaa tatcgtcttg aaggcaaatt   300
ctcttaccat ttcattctca gaagctccaa ggatgaatgg gtgatctcta gggttttcca   360
agaaaaccac tttagctagc accgggagcc gtctccgaan gaaga                               405

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<210> 6745  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-122-Q1-E1-C10

<400> 6745

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tacttgccng gccggtccaa aataacgggt cgancncgc gtccgaagct ncactttctca   60
gaagaaagta agatctgcga atctctctca ctctcacaaa tggcaacgct tttaggtttc   120
tctcagacta agtttcacca ttgcggcgtc tggatttcta cgccgccgtg ctcatcttcn   180
tccacggtag tctcaatggt gggcttgaat cggantgatt cgaaaaagct ccgttcagat   240
ttcctcggcc agattggtta cgaagatcgg agacaagtaa ganacagtta ctgtagaagc   300
tcattagctg tgaaaatgtc gtgggacggg cctcttgctt ccgtcaagtt gatcatccaa   360
ggaaaaaacc tcgagttatc agagncannt aancagcatg ttgaagagaa cctnngggcaa   420
atctgttnag aaagacaggt nagtntgtga gagaacgttn gaagt                               465

```

<210> 6746

<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-122-Q1-E1-C12

<400> 6746

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gggtataatcc gattatccgc cgtaaaagaa atcgccgatg tggcggaggt ggaagaagat 120  
gggtccaattg agcttctctac gtctgtccacg tctccgtttt cgtctactaa ctccattttc 180  
gccacttccg atgatectac tcctctccaa ttggccacca gtgtgcttct taccggtgcc 240  
atcactgtct tcctcatccg ctccgttcga cggcgcgcta aacgcgcaa agagctgaca 300  
tttagatcta ctggagctaa gaaatcggtg aaagaagaag caatggataa tctaaaagcg 360  
ttaagttcaa ctccgataga aggtggtaat tcaactccat cggcggntca agcgt 415

<210> 6747  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-122-Q1-E1-C3

<400> 6747

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gggtcatattt gccttcttgt tcttaagcat cactactgta atcaatgggtg gaataacaag 120  
taaatttgtc cgccaagctt taccatcgat cgaaatgtct ctgcacactt tcccttctcc 180  
tgggtggctac aacactcctg aacaggttca tctgactcaa ggagaccatg atggacgtgg 240  
catgattgtc tcgtgggtca caccgttgaa tctcgtgggt tctaacgttg ttacctactg 300  
gatcgctact aatggtagtg acgtaaagcc agcgaaaaan agagctcatg cctccactaa 360  
atcttacaga ttctatgact atagttcaag atttctccat cagccacaa ttaaagggac 420  
c 421

<210> 6748  
<211> 422  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-122-Q1-E1-C7

<400> 6748

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accacggaag tccagtctca tcctccttcc cgagtccatc tcgctatgac ggaaaccctt 120
cttcatacct tcttcttccg ttccctacaca acatcgcttc ttcgattcct gctaaccctt 180
cacctcttag aatatccaac agtgcgcctg tgactcctcc gttgtcatct cctacttctc 240
gtgggttcgaa gcggaaactt acttcagaag caattaccaa atggcgggtc ttacacggtt 300
ttgagacatc cgcttttcgc tanctctgct ccatctagtc nnacncgtcg tgctgggtcac 360
caaacgccga ggtacaatnc cnggantggg gatgaagtcc nagggaggat tngattggaa 420
gg 422
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<210> 6749

<211> 414

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-121-Q1-E1-H9

<400> 6749

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agagtgggtc aaagacttgg cctttggttg gagcagcgat cgaacagtta actaatTTTg 120
atcgaatgca tgattggctc gttgagtatc ttataactc aagaacagta gtggttccaa 180
tgccattcac tacttataca tacatagctg atcccatcaa cgttgaatat gtctgaaaa 240
caaacttctc canttacccc aaggagagaga cttatcattc ttatatggaa gtattgttgg 300
gagatgggat tttcaattct gatgganagc tttggaggaa acagagaaaa accgcgagtt 360
tcgaatttgc ttccaagaat cttagagatt ttaagtactg tantgtttaa aaga 414
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<210> 6750

<211> 438

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-F8

<400> 6750

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aaccagttt tttccgacgg cgtacaagct tcctccgccg taacgccgctc gtttaataacc 120  
aagaagcttg attaggtttc cgtagtgtgt gattttttta aggttctgaa cactgatgtc 180  
aaaccattg aaagagtcaa gagaggatat tgcaaattct actcctcaca tgagggataa 240  
tgagtatgtt cggctagttg tggctcatga agcctcccca gctgaaaccg tgttgtctct 300  
atcgcaatca gaggtgcaga gtaagaaatt tatgtggtgg ttaaaagctt tggggaatat 360  
gtgcagttgc tctcttgctt acgcntgttt tcggaaaatg ggggagttcc gtttgtgttt 420  
caaaaggttc ttattcca 438

<210> 6751

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-121-Q1-E1-F9

<400> 6751

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tccttcttgc gctgaccga atcttttgac tcgaaccgct cgtggtcaat gggctttccg 120  
cggatacatt acttcagatt gtgacgcagt ctcaatcatc tacgatgctc aaggctacgc 180  
taaaagccct gaagacgctg ttgctgatgt cctcaaagct ggcatggacg taaactgtgg 240  
atcactactta caaaaacaca ccaaatcagc tcttcaacag aagaaagtgt ctgaaacaga 300  
cattgacaga gctctactca atcttttctc tgtaggatt cgtctcggtc tctttaacgg 360  
cgatccaacc aaattacctt acggaaacat taagtcctaa cgaagtttgt tca 413

<210> 6752

<211> 411

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-121-Q1-E1-G10

<400> 6752

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tatggatttg ttcaaagtG taatgatgat aatgggtgtg gttgtctctt gtgggtgaagc 120  
tgtttctgga gctaagttcg atgagcttta tCGgtcaagc tgggctatgg atcattgtgt 180  
caacgaaggc gaagtcacaa aactcaagct tgacaattac tctggagctg ggtttgaatc 240  
aagaagcaaa tacttgtttg gtaaagtctc tatccagatt aagcttgttg aggggtgattc 300  
agcaggaaca gtcactgctt tctacatgtc ttcagatggc ccgaaccaca acgaattcga 360  
ttttgagttc ttagggaaca ctaccggcga gccttacata gtccaaacca a 411

<210> 6753  
<211> 396  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-G11  
<400> 6753

ttggnaaaga aagaaagaga gagaacaaag cttcttcac aatggagaag catggatgtg 60  
agatcgaagc tttagatatt gattananca tctttgtaag gaagattaat gttaatccct 120  
ttggaatctt taggcggaaa ccgcggccgg aagctgacca gccggtaaag acagaggaan 180  
agtcattgaa gctagaggat gaaaccggta acaaagtcaa gcatgtincta aaaggagtga 240  
cttgcaagc caaacatgg gagattcttg ctattgttgg cccaagtgg gcagggaagt 300  
cgtctttgct tgaaattcta gctgctagac tcatccctca aaccgggtcg gtttatgtca 360  
acaagagacc ggtggatana gccaatctca agaaaa 396

<210> 6754  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-G3  
<400> 6754

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ttccgggtgt tttgaaagaa ccccgacaat ggcgtggaac gtgttcaagt tctgcacagc 120



acttcgcgcc ttgggttcga tcatgatctt aattgttatc gggatcatcg gattcacata 180  
ctacgccgtt gtcgtcgtta attacggacc tgctctactg atcgggtggtg tcgattcatt 240  
actatctgtt ctctcttag cgttcttcca ctttctgctt ataatgctac tgtggagtta 300  
tttctctgtt gttgtgacgg accctggtgg tgttccaacg ggttgagggc cagaattaga 360  
catagagaaa accaaggga accaagcttt gattgggaga aaccttcggt tggagaatcc 420  
cccgtctca atgggtgtta agaataattg gtagaaaagt gcaatcaata ttaaancggc 480  
ctcgttccca acaaattggt caagt 505

<210> 6755  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-G4

<400> 6755

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caatggagaa ntattcccgg cggctctattc tcctttccac ggtggtcgcc gccgtgttat 120  
tctctttaat tccggtttca atctctattc ccttcatact ctttcacgga attggagata 180  
aatgttctgg tggagttagt aacttcacgc aactcctaac caacctctct ggctctcctg 240  
gctattgctt agaaatagga aatggagaaa aggactcatg gttcatgcc ctaanaaaag 300  
canacaagtg tagcgtgtga gaaaagtga agcgatgaaa agtggttaaag tcaaggggta 360  
caacattgtt gcaanagtcc ccaagгнаac ttaagtttgc taagaggact aatcnaattc 420  
tggcgaaaat ggctcctccc ggntaaaa 448

<210> 6756  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-G5

<400> 6756

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agcttcccggt ctccggcgaa cctttagccg tcgagagtcc nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gtgcctcaag 180  
 aggtcactaa tgggtgtannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncgatgt cccggagaag aagcttgaag 300  
 ctgaggattt agganaaagg agagagtga caacaagaag ggttgttgtg actggggaaa 360  
 ngtttggaag aagcanagta cgcaagcttt tgaaagactt ttgcctgaat ccaattttgc 420  
 cggagaatgt tttagattgt tgtaagactt tcgag 455

<210> 6757  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-G6

<400> 6757

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 tcataggaag gttctgagag acaacatcca aggaatcact aaaccggcga ttcggagatt 180  
 ggctcgtaga ggtggtgtta aacgtattag tggtttgatc tacgaggaga cacgtggcgt 240  
 tctcaagatc tttttgaaa atgttatccg tgacgccgtt acttacctg agcacgctcg 300  
 gaggaagacg gtgactgcta tggatgttgt ttatgctctt aagagacaag gaagaactct 360  
 ctatggattc ggtggttgag gattttaagt gttttaagag tgttgtctac gatttgcttt 420  
 agtgatttca ttttgga 438

<210> 6758  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-G7

<400> 6758

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attttctagc tgtgttcctt ttctcagcaa ctctctcacc ttgcctcgta gtctcggctt 120  
 cgctcgtgga agggaaagtc tcttgtttcg actgtcccaa tgattatgat tattcaggaa 180  
 tcacggtcgg agttagctgt agccacacaa acacgcgggt cactgtaana actgacaaga 240  
 agggtgactt catatcggaa ctccctcaa agatcgaatc aaactgtgaa gcagaactcc 300  
 aaggcagcgt caagcaactt tatgcttcca agaataacgt taagtcgaag attgttaagc 360  
 ttggcgggtga caaatatggc ctctcttcca aagttgttct tcntgaaatc atgtccaaga 420  
 agcttcggat ctttaagttc cgtccaanga ccgttgattt accaagttcc tcccgangtg 480  
 ggggggc 486

<210> 6759  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-121-Q1-E1-H10  
 <400> 6759

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 gttcaatgtc cctcatgat cgggcattag cagaaatgca agcccttaaa gcttcattgg 180  
 ttcggcgaaa tctaccggct ttggatctc ctctcctac cctcctcag gccgtaccgc 240  
 gtccgcgcgt gtaccaagtg atatcatatg gtgccgatcc cacagggaaa ttggatagca 300  
 cggtgcaat attaaaagct atggaagaag catttgatgg tccaaatcat ggagttttga 360  
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<210> 6760  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-H3  
 <400> 6760

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attcgttgga ncttgatccc nccgtggaaa tgggtggttt ccggtttcac aagtatcagg 120  
 tgggtgggag agccctcccg acagagaacg atgagcacc taagatctac aggatgaagc 180  
 tttggggtag aaatgaagta tgcgccaagt ccaagttctg gtacttcatg aggaaactga 240  
 agaaggtgaa gaaaagcaac ggacagatgc ttgccatcaa tgagattttc gagaagaacc 300  
 caacgaccat caagaactac ggggatctgg ttgcgttatc anagccgaac tgggtancac 360  
 aacatgtaca aaggagtacc gtgacacaac actcaatggt gggantggag caaatgtnca 420  
 ctggagatgg cttctccgtc aagagagtga ggttcccttg cattcagatn atcaagactg 480  
 cgactgtccc t 491

<210> 6761  
 <211> 460  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-H4  
 <400> 6761

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 gaagagaaga ggcgaggag atatggattg ggacaacgta gcagctgagg atgtgattga 120  
 ggcgcttaga gaagttgaat ggtcgacgcc tcctcgttcg tttggcgagt tcttctctag 180  
 attcgcgttc cctcgctctt tctctaaatg gaagagccgt ctcaaataca atctctacta 240  
 ctataggacg aattacttta tcttggtgat tttcgttctg ggtcctgcg cttgttacna 300  
 gacctcctgg gtccttctg ggtgctgct ccaaaaagct ttaaagtaaa gcnttccctt 360  
 aaacgacagt ttttgcaagc taagntttaa tgaggaaagt ttaatnagaa accgattang 420  
 ggaattcctc cccaacann atggctgcaa aaaaatgagn 460

<210> 6762  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-H6  
 <400> 6762

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tacaattggt ctactatttc atcaaatctg agaacaatcc aaaagaagac cctcttcttc 180  
tatggtttaga tggaggacct ggatgttctt ctctcggtgg ccttcttttt gagaacggac 240  
cgggtggcttt gaagtctgcg gtttacaatg gaagtaatcc ttctttgttc tccactacat 300  
attcatggac aaagatggca aacataatat acttggatca gccagttgga tctggtttct 360  
ccttactcaa gaactccaat tgggaaaatc tagtgacaca agtgaagtn agangatcca 420  
agangtttcc ttcaaaag 438

<210> 6763  
<211> 440  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-H8  
<400> 6763

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntcacatg gtgacggacg 120  
atagcaactc ctctggacga atcaagtcnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gagcttaaaa ggaaaattca 240  
aggagaaaga gttaggtcta ttaaagagaa atttgaggct aatagaaaga aagtggatgc 300  
tcatgtttct cctttttcat ctgctgcac gagccgagct accgcagagg ataatgggaa 360  
atagcaatat gctttcttcg agaatgagaa tgccactctg caagttaaag ggtttttctc 420  
atggtgtggg gagataaaga 440

<210> 6764  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-F4  
<400> 6764

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 gacggagctt tgtcgtttca gtggacagaa natttaccca ggaagaggaa ttangtttat 180  
 ccgatctgat tctcaggttt tcttgtttct taactcaaaa tgtaagaggt acttcataa 240  
 caagttgaag ccatccaagc ttgcatggac tgccatgtac agaaangcaa cacangaagg 300  
 atgcagcaca agaggctgtg aanagaanga gacgttccac caagaagcca tactcaangt 360  
 ccatngttgg tgctacntg gaaagtaatt caaaangana gagagctgag aaagcctgaa 420  
 gttcgttgat gcanccaagg gaagctgccc tgcgttgaga ttaangga 468

<210> 6765  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-D10  
 <400> 6765

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 nnnnnnnnaa gacaagaact tgatgttcat gtcttgaaac ttaacaaagt attgatcttt 120  
 ccttttaagt aaagaatttg ggggttacac aacttcgtct agatggagca agagaaaagc 180  
 ttggatccac aactatggca tgcttggtgca ggatcaatgg ttcaaattccc ttactgaat 240  
 tcaacggttt ttacttctgc tcaaggccac acagagcacg ctcacgcgcc tcttgatttt 300  
 cacgcgccgc gcgttccacc tcttatcttc tgtcgtgtcg tctccgtgaa gttcctcgcc 360  
 gacgctgaaa cagacgaagt ttttgctaaa attacgcttt tgccacttcc ggg 413

<210> 6766  
 <211> 389  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-D12  
 <400> 6766

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gatcaggcga tgatgagtat cccaatggag ttaatgtcta tcagaaaccc taattccacc 120  
 ttgetctata gagctcactc tcgtccgcct gtgaagctct gtgctccacc tcgttctctc 180  
 ctccctagcc gacgccatit cagtgtctct cgagctgttg tttcgtatcc aggaatacgt 240  
 ttcggcttta cctcgccgga agtcttgctt aatcgatccg tcgttgcttt cgctgcatcc 300  
 cacgaggatt cgggagaatc aggtgttgag gtggggaagg agaagaatga tatagatgtt 360  
 tgaagatgat acatctaaag gaagcnatg 389

<210> 6767  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-D4  
 <400> 6767

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 cgtggctggc ccatcagctc ctccctccgcg gctactccgt ccacgccacc gtgaaaaacc 180  
 tccaggatga gaaagagacg aaacatctag aaggtctcga aggtgcagcc acacgcctcc 240  
 atctattcga gatggatctc ctacaatacg acaccgtttc cgccgccatc aatgggttgc 300  
 ccggcgattt ccacctcgca tcaccttgta tcgtcgatga aagttcanga ttcccangaa 360  
 gcaactactt gaccccggcg gttaaangaa ccatnaatgt tctgaacggg cgggcaaaaa 420  
 gaaagccaag ttgttaagga gagttgtttg gtgacgtctt cgatatccgg cgattnac 478

<210> 6768  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-D7  
 <400> 6768

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 aaccactact ttggtnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnt 449

<210> 6769  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-D9

<400> 6769  
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 gatgggaggg tttttgacta acagctacag tcctaagaag tttcgatcta ggcanaaaaa 180  
 gctttgcttt ggtccaacta ctatgcctga ttgtgtcggt gtgtttgatt ctganaggaa 240  
 gagctctgtg atacttnagg catcgaagcn tcagattccg gttggtgcaa ttgtggacct 300  
 gaatgtgcca ttggagttct ttganaagat taegtatcct gtgccanctc ntgattcggg 360  
 caagtttggtg tatttggtct gtaatgtgat caccangtgc tttttggcag aacanatgaa 420  
 gttggggatc anagaangga gcaatgaaga tttgatgaat gatttagnct g 471

<210> 6770  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-E3

<400> 6770  
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ctaattgtctg ctgacgccga tacaacaaag aaaattgtat ccaaattaaa acgccgactg 180  
catatggaga gtcaggaacg ccaattgaca gacaaggaac ggctgggtttt gaagctagag 240  
aagcaatatc caaatgatat tggagtgata tctgcattct tcttcaacta tgtgaagctc 300  
aatcctggcg aagccttgta tcttgggtgca aacgagcccc acgcatactt attcggtgag 360  
tgccttgang tcatggcgac ttcagacaat gtactacgaa gctgggctca attncaaagc 420  
ctcctggata ttcaaacacn ttggttcaat gctcccctta aaaactgggg atatcccga 480  
aatcctgaag ggaacaagga 500

<210> 6771  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-E7  
<400> 6771

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agctgcagac tacatcctcg caatctgcga cattcttctc gccggagaga ctcgtttagg 180  
tgattccaac ttgccagact ggtaoGCCgt tctccgactc ggtcgttttag ctcaaaaccc 240  
tgaacacgtc gcgactcagt accgtagact cgctcttctc ctcaatcctt ccgttaatcg 300  
tctcccattc gccgatcgag ctcttaaaat cgtctccgat gcttgggttcg ttctctctga 360  
ttcgttcaag aaatcattct acgancgaga aattgcaaac ttaagtcaac tcgggtcaatc 420  
tgggattcca tcttcaaacc caatcgcatc aaaatttcca agtgggaacc taacagtagc 480  
accgccgtat 490

<210> 6772  
<211> 474  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-121-Q1-E1-E8  
<400> 6772

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 ttgcaaatta tggaacgctt taaccaaaga tcgggttctg ggtaaagcag cggcgcagtt 180  
 tttgggggtt atgacgatgg attcaaaggt ctgttcagtt agattccatc tccgtcgcag 240  
 caaggaggaa gaagaagaca cgatggatct atctataaag caggtagatt tgcttaatca 300  
 agtcgagata tctagagtgt atcactgcga cggcttggtt ttancgtggc taanggacaa 360  
 ctccaanggg tccttggttt gggaanccct taatttgggg gcaanacaaa gatgggattc 420  
 agaaccang aancangaat ccaaccatta ggaagacagg ccaatgctcc ttgg 474

<210> 6773  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-121-Q1-E1-E9  
 <400> 6773

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 ctttacggtg ctacgcacac tctctacaat gtcgatggag gtcacgcagc cattgtcttt 180  
 aaccggcttg ttggtatcaa agacaagggtc taccctgagg gtactcacct tatgattcca 240  
 tggttcgaaa ggccaatcat ctatgacggt cgtgcaaagc cttatctagt tgagagcaca 300  
 tctgggagcc gtgatctcca gatggttaag attgggcttc gggttctcac ccgtcctatg 360  
 gctgaccaat taccaagagg tataccgggtc ccttggtgag aattaccgcc gag 413

<210> 6774  
 <211> 507  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-F1  
 <400> 6774

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atgcctcggc ctcgattttc cgaccttgta cttcaaagcc aagattcctc accggttctt 180  
 ccggtatggt gaaccgcgac ttgtcgttta catcgatcgg ttcacgcggc aaaacgtcgt 240  
 cgttcaangt tgaagctaag aaaggagaat ggttgcccgg tttggcatcg cctgattatc 300  
 tcaccggcag tcttgccggt gacaatgggt ttgacccggt gggtcnagca gangattcaa 360  
 gagaacttga aatgggtttct ccaagcaaga nctgtcaaac ggaccaatng ggctaagccc 420  
 cgggtgtcnc tgggaangcc ttttgcccgg aaagttttca accaaagatt ggnaatcaat 480  
 aaatgttccc tgaantggta acgaatg 507

<210> 6775  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-F11

<400> 6775

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 attagagttg ggaaaataga tgatgttcaa gaactcataa aatccaaacc aaacaaagtt 180  
 ccagagagat tcattagaga agagtatgag agaggagtcg ttgtgtcgtc tcttaagact 240  
 catcatcttc atcatcagat tcctgttatt gatctctcta agctctctaa acccgacaat 300  
 gatgattttt tctttgagat tcttaagctc tcacaagctt gtgaagactg gggatttttc 360  
 caggttataa atcatgggat agaagtggag gttgtggaag atatagagga agtggcttca 420  
 gagttctttg atatgccatt ggaggagaag aagaagtatc caatggagcc aa 472

<210> 6776  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-121-Q1-E1-F12

<400> 6776

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 taagatactg gacagtcaat atacggaat ccggcgaaca agaggagatg gaaattgctt 180  
 cttccgaagt tttatgttct cttaccttga gcatatattg gaatcacaag atcgtgctga 240  
 agtcgatcgt atcaaggcca atgttgagaa atgtagaaag actctgcaaa acttaggtta 300  
 tacagatttt acatttgagg acttctttgc gttgttctt gagcaactag atgacattct 360  
 ccaaggaact gaagagtcta taagctacga tgagctgggt aacagaagta ga 412

<210> 6777  
 <211> 493  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-F3

<400> 6777  
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 gaggttgagg ttaagtctcc ggctgaaaag ttctgggtag cccttggcga cggcatcaat 180  
 ctcttcccca aagctttccc taacgactac aaaaccatcc aagttctagc cggcgatggc 240  
 aacgctcctg gctccattcg cctcattact tatggagaag gatctccact ggtgaagata 300  
 tcggcggaga aggatcgaag cagtggattt gggagaacaa aagcatgtcg tacagcatca 360  
 ttggcggaga aatgtttgga gtactacaaa accttcaaag ggaccaacaa cgtaaccccc 420  
 aanggatgtg ggaancctcc tgaaatggtc cggatgaattt gagaagaacg cccatgagat 480  
 ngatgattca cat 493

<210> 6778  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-121-Q1-E1-C2

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 ctgtcttctt actcaacttt tgcttcaggc ttcgtctctt ttgcaatttt tgagtttagcc 180  
 aagtgtctcaa gggagatata taataacctga agatgtccaa ggcaagtgat gccgtcagag 240  
 aaccattggg ggacaagaat atggctggat caaaaccaga ccagccgtgg atggtttatc 300  
 tcangcacat tcgttgccgg tctgtggttc ttttgcggtc cggttcttgt gcgggataat 360  
 ccttcaacct gctcangctg caaattaagg natggacctt tcaantganc aatagcctga 420  
 agttttcact cctttgggtn cttaactaac ntttggggca aatgnattcg gtgctataac 480  
 aaacgggg 488

<210> 6779  
 <211> 407  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-119-Q1-E1-C3  
 <400> 6779

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 aggtatcaaa acatacttcc tctcccaaaa taatagacag tggcttgaat cagaagacgg 180  
 taaaggcatc ttctccaact aatcgggctt tattctctga aactgatgga gcacgagaat 240  
 caaaagcacc tgcagattcg catcttccat cttcatcttc accttcaccg ggctcatoga 300  
 atttgtcacc ctctttgaac tctgcaggga gcgaggccat ttctactcca aacgtggtag 360  
 ntaataactt tgntgcaacg ttttggnaag tgagaacca antaaat 407

<210> 6780  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-119-Q1-E1-C4  
 <400> 6780

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 gctcgtgccg attctccacc gtatggaatc gattatccga ctggtcgacc aaccggtcgt 240  
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 ttaccaattc ttaaccctga actcactgga gagaagctat tgatcggagc taacttgctt 360  
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 tgcagacaaa gcttatacga agctgtatct actgactttg atgggtgaaat atcaaaaacc 240  
 ctaaattaat tttaaaaaaa aacacatttt ttttcttctt ttgggtttttc ctctgagggg 300  
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 gggagtttga ttcttctaac tgtagaagaa acagagtcaa cagaagaaaa ctaaaaaagt 240  
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 gggttgctac ttcttctcta aatccaagac ccaatgaaca attgtgggtt ggtaagggtt 360  
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 <213> Arabidopsis thaliana  
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 ggaacacaca tgtaagagg aagctattaa caaaanggat tgatncggcg actcatcgac 360  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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tacaaccgtt gacaatatgc atgatcggcg ccggaggttt catcggttca catctctgtg 180  
 aaaagctctt gaccgagacg ccacataagg tgcttgcgct cgatgtttac aacgataaga 240  
 tcaaacactt gcttgagcct gataccgttg aatggagtgg tcggatccag tttcatcgta 300  
 tcaatattaa gcatgattcg agacttgaag gtcttgtaa gatggcggat ctgattataa 360  
 atcttgctgc gatctgtact ccagctgatt acaatacacg tctcttgat actatctaca 420  
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 <212> DNA  
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 gtaggaaaac ccacttggtg ccagtgtcag acagtgttat agatcagact atcgtggcga 180  
 tagaatctgg tattgtggat gctacaatgg tcttgagca tcttgagcaa catatatcta 240  
 agatcaaaga ggaagcacta agccgaaaag agatacttga aagggttgag aaatgggttat 300  
 ctgcctgcga tgaagaaagt tggcttgaag aatacaacag ggatgataac cgatacaatg 360  
 ctgggcgtgg agctcatctt actctcaagc gcgctgaaaa agctccgtaa tcttgttacc 420  
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 aagaaaacgg 490

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 <211> 360  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-119-Q1-E1-D7  
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agtttgagct tcttagaccg cagtgtgtag tctacctana cttgaaaaga gaagaatgtg 240  
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<210> 6787  
<211> 394  
<212> DNA  
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<223> unsure at all n locations  
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aacttaccan gtccagacat agtaaggatt gacagactga gagctctttc ntgattctat 300  
gggtggtggn gcatggccgt tcttaattgg tggaacgatt tgtcaggtta attcccgttt 360  
aannaacgnt ncctcangcc tgggcaactt cccg 394

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<211> 432  
<212> DNA  
<213> Arabidopsis thaliana  
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caccggtggc cgtagcgaag ccgaggttat gaggtatcta cnaggcatgg ttggtgaaac 240  
acgggcaagg ctacacagcca gantctctctt gttgataaag atcgacngtt cgagatcttt 300  
aaagacaatc ttcgtttctgt cgatgancat aacgagaaga atcttactta taaattgngt 360  
ttgactcntt ttgcngggttn tagnaaccna nnggtnttga tttaaaattn ccttggggct 420  
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<210> 6789  
<211> 428  
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ctttccaata gatatctgga atttattgag aatacactac taggcaagat caccaggagc 240  
attaggcttc gtaaagatat tcacgaaaag actttacttg cactcttgcc ctttcttcca 300  
aaacttattc tgagggtaga ccgtgattgg agagataatc ttctggaggc atttactatt 360  
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gaagacat 428

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<212> DNA  
<213> Arabidopsis thaliana  
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ctggttattt atctggattc gatcaagaac canatttatc accaatggat ggttcgatct 240  
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 aacattggaa actcttcctc tgtttttggt gatacaanng caagtgatta ngcttaataa 360  
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 aancaa 426

<210> 6791  
 <211> 396  
 <212> DNA  
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 <223> unsure at all n locations  
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 aaccttggtc tcaaggagtt gtgcgtaaga tcttgatctt gtctcctgaa tctgagctta 300  
 agcgtggaag catctatttt cttatcccggt atacttctat gccggagaag aagaaaacan 360  
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<210> 6792  
 <211> 422  
 <212> DNA  
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 <223> unsure at all n locations  
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 tgattcccggt cgtctgagat cggagttatc atcgangatt gataatgggt cccgaatcat 240

catcgaggat aatgagtttt tctggcgatg atttcgaatt cgatattgat ttcnaattcg 300  
atgcaccgag gttctatgat ttctctagac ctgagcttta ttccgangac tgaanaaatc 360  
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ca 422

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<211> 422  
<212> DNA  
<213> Arabidopsis thaliana  
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tacctcgta tcccgacggt aaactccgtt acaacggtgg tcacactcgc gtcctcgccg 180  
ttcctcgctc cgtctcattt tccgagttag cgtcgaagat ggcggagatg tgcggcgccg 240  
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tcgtttcaan tacttccgat gaagatctag tgaatctaata cgaagagtac gatntccgtt 360  
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gg 422

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<212> DNA  
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gagccgtgaa gattancanc ggatcgagtt ctggtcaaac cctgagcgtt ctggttggt 180  
cacaagcaa ngcgattaca taaaacctg gcgtcgtcgt tggttcgttc taaaacnagg 240

gaanctttctc tggttcaaag atcaagccgc tgctggaatt cnttggatct acgccgcgtg 300  
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 cttttgcttt tgagctatcn agtggttagct ataccaatgt tcttcattgc tggataatnn 420  
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<210> 6795  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6795

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 aagctggaag ttctaaaaca tcagtggcat tcctcaatgc cttcaaataca gaagatatca 240  
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 agttcctggt gcttctatgt ttggtcatgt ctgtcatgtt cttcgttgag gttatgtaca 360  
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<210> 6796  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6796

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 tgaacggagg tccttccggt ttcaataatg ctccggtcac gaaagccttc gtcacgcgca 240

ctgctctttt cactgtgttc ttcgggatcc ggggaggttc ttccaagctc ggcttatctt 300  
accaggatat ttttgaagaa gtttcggatt tggaagttaa ttatatcggc ttttgccttc 360  
tcgtccacaa ctcaattgct ttctggctta ganttgtat 400

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<213> Arabidopsis thaliana  
  
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ggcttaagac tcatgggtccc ggtgaccgaa ccttgaccca aggattaaag ggagatccga 180  
cttacctagt tgtagagaac ganaagactc tagcgacata cggatatcaac gcagtgtgna 240  
ctcancttgg ntgtgttgtg ccatggaaca aatgctgaga acaagtttct atgtccttgc 300  
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atcgttg 367

<210> 6798  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-118-Q1-E1-H7  
  
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ccaggaaatg gttaaaaggc atggagagtt ttgatttaca agatatatca tgtcgcagtg 180  
catagacggg ttcaagcatg tatgctcttc ttttttccgg tgttttgata tcnatattta 240  
caancaatct ggaggccttg gtgaccctga acttcttgcg acagagacag tttttaagcg 300  
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406

<210> 6799

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<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-118-Q1-E1-H8

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tgtcatggcc caagtccttc ccgagaaaca attcagagtg ctcaacgaac ccggctacgc 180

cccatacatc accgagtacg acgcgagtta ccgattcctc aactcaccga atcagaattt 240

cttcacaatt cctttccagc tcatgtttta caatacaact cctagcgctt acgtgttagc 300

tctccgagtc ggaacgaggc gtgacatgag tttcacgcgt tggatctggg acgccaatcg 360

caacaacccc gtcggagaca actccacact ctcatcggc cgaaacggaa acttgtgctc 420

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<210> 6800

<211> 476

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agatcgagat aaagaggata gagaacgcan acaacagagt ggtgacgttc tcaaagagga 180

ggaatggatt ggtgaanaag gctaaagaga tcacagttct ttgtgatgca aaagttgccc 240

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gtgctatggt ggaccaatac caagaagtta tctgggcaan gaaactatgg gatgctaagc 360

atgnngaacc ttagcaatga gattgntang atcaacaaat agaattgntan cttacaactg 420

ggagctcang catttnancg ggagaagata tacagtctct caacntgaaa aatctg 476

<210> 6801  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6801

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cgagaaacca ccgaaccag tcccgtccat caacttcgtc tcgtctcgtg antccttctt 240  
tccaagtcg cagtctccga atttcncttc gattggactt ccaaaattct caaagaagtn 300  
cccaaaacc gaaacagcag gaaccgacga accaggaccg tacaagcaaa tagcnagatc 360  
agttcntatg ggagtgtgag aacataccgg attacaggca cactccagaa gtggggtnaa 420  
gcntctcaac gaaagattca ngntttccna gaancgaagg ggaatcccgg gcncgg 476

<210> 6802  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-119-Q1-E1-A5

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tgaggagtga attttttttt cttcnaaaag ctcgagaaga gtgaaaacc cagaaatgac 180  
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aaccttcgcg tcttcaacc taaccnaac cctaatttcg aaaggagcaa ttcgagcaag 360  
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455

<210> 6803

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<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: .LIB24-119-Q1-E1-A7

<400> 6803

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gccatttaac tcgcgaagat caaagttcta gaaggttctc tgctcttctg atccgaagct 180  
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<210> 6804

<211> 406

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-119-Q1-E1-A8

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ctcaggtgtt gacagtgatc tcacagaaac aaaagtctgc tttgagagag gcatacaaga 240  
acaagaagct tttgcctctt gatcttcgtc ccaagaagac tagagccatc aggaggagac 300  
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<210> 6805  
 <211> 372  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 6805

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aaaccatgcc gggatcactc gggcatgaag aacaanatgc caagacattt gcctcatggg 120
ggattgatta cctcaagtat ganaactgct aaaatacagg gacaagtcca agagaaagat 180
accctaagat gagtaaagcg ctgttaaatt caggaagatc catantcttc tctctgtgcg 240
aatgggggaca anaggatcca gcaacttggg caggagatat tggcaacagt tggagaacaa 300
caggagatat ccaagataat tggnaaacca tgacattgat agcggatnag aatgatcgat 360
gggnatctta tg 372
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<210> 6806  
 <211> 443  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-119-Q1-E1-B5

<400> 6806

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tcaacatcga aagctcatgc tccaccgtga atccggataa aaccgatatt tccgggtcgg 120
gtcaaaagtt tcgtcgcggt tgttttacgg aggagaaagc taagcanttg aggaggaaaa 180
ccgcagaagc ttccacgttc catgacgtaa tgtatcactc cgccattgct tctcgacttg 240
cgtctgatat caccggccga gtcgaggatt gaaacggatt cgggtcagat ctggagacga 300
atcaattaat gaataattaa tctttttttt ctttaattcan tgttcttgta ggatgcagac 360
catcttctat cggtgctcct ttttcaattg aaccgttggc ttgtgtttgg tcnttgtgtg 420
ttgtaaactc cagnttcct tcc 443
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<210> 6807

<211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-119-Q1-E1-C1

<400> 6807

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naatccccag agtgcgacga aaatgcagca ncaagggagt aagagtggat ctgagatgga 60
ggtgacatgg gaggaccang cagaacatta atancttcag ccgtctcaac aacaaagtcc 120
atgacctcga tgacgatatc aaatccgcca aggaaaagtg tgaaaatcta gaggatgcag 180
ggaacgagtt gatccttgct gatgaggaga tgggtgcgttt tcaaatagga gaagtgtttg 240
ctcatgtgcc nagggacgac gtagaaacaa tnatanaaga gatgaagaga agcgacctgc 300
aaaagccttg agaaactcga gcaagagaag ggnatcaatt ggtaacacan atggcaacgc 360
tgaaanaagt attgtntgcc aagttcaaag gattccaacc aatccttgga gcnaaac 417

```

<210> 6808  
 <211> 435  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-119-Q1-E1-C11

<400> 6808

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nagcactgag aagggaaaag atgggtgcaa ctgctccatt ttggcgattt tcagcagcat 60
cctatccaga tctcaaggag caagcgcttg ttagtggttct tcgaagtagc aaaaaaggag 120
ccattgtccc tcaaaaggaa acatcagcag ggggagatgt ttatcccgtt gagccatttt 180
ttgaccccaa ggtacatcgt attctcgacg ctcaactggg acttctcact gacgaagata 240
cgagtggact acggtcgcat actctatcat tgcttgtaaa tgatattcca nggagttctt 300
aatattgtga nctgggtgttt tcgctcnaaa gggatacant atccagagct tggccgtntt 360
gacatgcctg aaaccaaggg catttcacgc attacaacag ttatacctgg caacagattg 420
aatcggtcag caaaa 435

```

<210> 6809  
 <211> 411  
 <212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-118-Q1-E1-G3

<400> 6809

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aaatcttagt ttcagacgga aagagagagt atagccatgg aagtctcaaa tcagaccaga 60
aaacggaaag caatcgacgc cggacatggc tcgcagccga cggcgtatcg aggctcagat 120
ggtgtagatc tttctctcct tgaagcactt gagaagtctt cgcataatgg agtagaagcg 180
cttgatctta aaaccctaaa aaagcttgct ctctccttcg agcggcgtct tagagacaac 240
atagctgctc gtctcaagta tgtggagaat ccagaaaagt tcgctgactc agaggttgac 300
ctacacgacg atcttcagaa gctcaagggtg ctcgctggag ctccggaact ttacccggac 360
cttgttgctt ccaatacggg tccttcgatt gtcaatctcc tctctcatga a 411
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<210> 6810

<211> 463

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-118-Q1-E1-D7

<400> 6810

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cgtggggtca ttaggggtctc tctgtttctg ggcaaatttt cttcatctcc gccgttttgc 120
ttcaatacag atttctggga ttttttttac cgatcaaatt taggttttcg ttttactca 180
gaaccttaga aaccctaatt ttgatacatt agcttttagag aaccttccat cggatccgtg 240
tacaataaaa aagtttgcgt ttttttttct cttaaatcga ttgaacgtgt ttgaagatgc 300
ctccaaagca acanccaaag gctgatttgg cgaagaagca gaaacaagtg gaagacaaaa 360
ctttcggatt gaaaaacaag aacaagagca agaattgtca gaagtatgtt cagagtctca 420
agcaatctgt tcagccnaaa cccgatgcaa ctaaagctgc agc 463
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<210> 6811

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-118-Q1-E1-E2

<400> 6811

acgcgtccgc ccacgcgtcc gccacgcgt ccggattgat gtgtttgatc ccaagttcaa 60

cattgtctct cctgggtgctg atatgagcat ctacttcctt tacacagagg agaagcgtag 120

attgactaag ttccactctg agatcgagga gtcctcttac agcgatgttg agaacaaaga 180

gcacttatgt gtgctcaagg acaagaagaa gccgattctc ttcacaatgg ctaggcttga 240

tcgtgtcaag aacttgtcag gtcttgttga gtggtacggg aagaacaccc gcttgcgtag 300

gctagctaac ttggttgttg ttggaggaga caggaggaaa gagtcaaagg acaatgaaga 360

gaaagcagag atgaagaaaa tgtatgatct cattgaggaa tacaagctaa acg 413

<210> 6812

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-118-Q1-E1-E3

<400> 6812

cgctgccccg tnccgggtcca aaaattcang ggctgcacgca cgcggtccana cagtnacttg 60

ttcctcccta aagagagaaa ggatgtcctc acttctactg cttgttggac tgcaatggct 120

gctctgcttg tttgtctcaa cttcacaatc ggtccaattc aaatgctcaa actttatgga 180

attccttact gggtaatgcg ccgctgttac tcccctgttt cagcctgagc aatttgtgta 240

ttatttcctc tgccttactc aaaaagggtt ttatgtcaaa tacagataaa tgtaatgtgg 300

ttggactttg tgacttacct gcatcaccat ggcatgaag ataagcttcc ttggtaccgt 360

ggcaaaggta aaaatacata ttctctggct tccactgttc ttgacnaca tcgctctttc 420

ttttaagggt taaancc 437

<210> 6813

<211> 391

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-118-Q1-E1-E5

<400> 6813

tgaagatggt gagaaacatt tcccgggtac actaacagcc attagagact ggtttagaga 60  
ctacaagatc ccagatggaa agcctgctaa cagatttggt cttggagaca aaccagcaaa 120  
caaagactat gctttgaaga tcatccaaga aacaaatgaa tcatgggcta aacttgtgaa 180  
gagatcagtt gatgctggag acctttcact ttactgaaca tattttgcaa tgtcgactta 240  
tgagggtcga taatgaatag actcaagatt cctatatcat tcttggtgtt tcctttcaat 300  
tgagatgtaa acattgggat ttggattttg tttttcacca ttgatgactg agaagtaata 360  
aaatgacttt ctgcttttga aaaaaaaaaa a 391

<210> 6814  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-118-Q1-E1-E8  
<400> 6814

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nnnnnnnnnn tcatctactt tcttcaacct tcgagtcac caatgggtcac tctcgagacc 120  
aacacaatca ttctatagat gatttcgaga gcattttcga catcaccatt gacaatttaa 180  
gctgctctaa cgaactcacg tgggatttct ggnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnaa aagatcgagt actgatcaag aaggctcaag ttttgggttt tgggagaata 300  
agccgacgga ttatgaagac aaagacttgg gtctgaagct gaatctgaac catcaagaag 360  
ttatccgatg cttggtctga tcaccangaa acctctgtgg gacagatact tca 413

<210> 6815  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-118-Q1-E1-E9  
<400> 6815

ngtttacgcc gccaggaacc ggtcnaagaa ttcccgggga aaaaggtaac tgctttttca 60  
tctcttaatt ataactcctt tctctcttc tctctcttc tccatggtg ggttcttctt 120

ttagtagatc tctgcaccac ccaaagccca aagctcaaag ctttgcacag aagatacaga 180  
 gagaaagaac cacatacaaa aaaaaagagt ctacttttct ttttgtttct acttgctatt 240  
 tattactttt cacaccacac cctctgggtca aatgtctttc tctctactct tctttccttt 300  
 ggtctgagac aacagtagca agagtccgtg aaagaagaaa acaaaatggt aagaattttg 360  
 aagaagatga gggaaaagga agcaacttta tctgtttatt tgacttgagt ctcttcgac 420  
 tacatctgga ttttgcaagc aattcctcct gaaggaaaaa tg 462

<210> 6816  
 <211> 389  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-118-Q1-E1-F11

<400> 6816  
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 tgttgattct ttactccgac tattatgagg attgtacgtg cgacggagac gttctcggcg 120  
 gagcttaaag agttcatgtg cgccgctgtg caaaggagga aagacgacga cggattcaga 180  
 ggctctcgtg gcggtggtaa atctagaaat gccatggatc ttgattctga cgccggaaac 240  
 agattggttt gtgttactgg tgggtgttct taccttggtc gtgccattgt taaacgtctt 300  
 cntgttcatg gatactccgt tagaatcgtc gttgattgtc cagaggacaa angagaaagt 360  
 ggagtgagat ggaagctgac gccntaaaa 389

<210> 6817  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-118-Q1-E1-F2

<400> 6817  
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 gcttctcttg cgtgtcatct ttttcgacaa acccaaaatc aaggcagaat ctgataatcg 120  
 aaaggaccca gtagaaaact tcgcgaggaa tcaagggtta gaagccctaa cttgatcgct 180

aattcgagaa tgaagcattt ggattgaggg caaaaatcga cgttttttaa aagtctgaac 240  
 tgagggtgat tcgttgagat catctgatca aatgctcttc gtggaagtaa acatttgagg 300  
 caaaccaggt cggtacaag gtaaggggt atgtcnaagc aaaacccgga atatgcttga 360  
 aggtttgggt taanagatac ttctttttaa atggttgctc gggaaacaaa gttcttt 417

<210> 6818  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-118-Q1-E1-F4  
 <400> 6818

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 cagtggcggc gagtgatcag atgttgttgt atagaggttt taagaaggcg aagaaggaga 180  
 gaggttgtac agctaaggag cgtattaagt aaaatgcctc cgtgcactgc tgggaaaagg 240  
 agttccatat accggggagt caccagacat agatggacag gtcgttatga agctcacctt 300  
 tgggataaga gtacctgga ccaaaaccaa gaacaagaag ggaaaacaag tttatctagg 360  
 agcatatgat gatgaagang ctgctgctag agcttacgac cttgctgcct taaaata 417

<210> 6819  
 <211> 405  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-118-Q1-E1-F7  
 <400> 6819

acgcgtgggt tttgananga gcgactctgt tccttcgccg ccgatacgca ctcttcttca 60  
 tcggatttgt tcctctggtg ggattgtagc tctccatgtg ttgtacnaat gcctcttatg 120  
 acaatgtttt ggagcttata ctcaaattct gtgaaaactt tgnccggtggg aattgtgang 180  
 atcctgtang atgaagatat ccttgaattg catatanggc tttgttgant gangttctca 240  
 tctcttgcca cctaanggtt ttgattcngc cactgtanct gctanggggt cgcttctgga 300



agaaatatgg gtgagactct catcatcatg ctgtctatgg agaactagca cccgtcaaca 360  
 cnggtatcca tggattcagg tgcttttact catcaaggaa tnaag 405

<210> 6820  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-118-Q1-E1-F8  
 <400> 6820

acgcgtccgg ctttatgcct gcttgtgtga caatctttga caagaattgt aaaccattga 60  
 tggaacttgg cgaaggtcct tataacactc ttcgatggaa cccaaaagg agagttttat 120  
 gtgtggctgg attcggtaac ttgcctggtg atatggcctt ctgggatgtt gtaaataaga 180  
 agcagctagg aagtaataaa gccgagtggg ctgtgacaag tgaatggtct ccagacgggc 240  
 gttattttctt gactgcctca acagcaccaa gacgtcaa atgacaatggg atgaaaatct 300  
 tcaactacga cggaaagcgt tattataaga agatgtttga gaggctgtat caggctgaat 360  
 ggaaaccaga gtctccaaga gaggttcggg gacatcagtg aacttatcaa 410

<210> 6821  
 <211> 398  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-118-Q1-E1-F9  
 <400> 6821

tttctctgtc tgtctttctc tctcagagaa atggctcttc nnnnnnnnnn nnnnnnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnaac acccatcacc atcgtcacca cttggccaag 180  
 cacaactaca aagatgctct cactaaatca atcctcttct ttgaaggcca aaggtcaggg 240  
 aaacttcctt ctaancagag aatgngttgg agaagagact ctggtctctc tgatggctct 300  
 gctcttcatg tggatttggg tggnggggtac natgatgcag gagacaatat caaatttggg 360  
 ttcncaatgg nattcanaag cacaagtggg ttttaangg 398

<210> 6822  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-118-Q1-E1-G1

<400> 6822

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 tctctctcag atctctctct ctctgtgatt caacaatggc ggtttcttct tcttcgtttc 120  
 tatcgacagc ttactaacc aattccaaat ccaacatttc attcgcttcc tcagtatccc 180  
 cateccctccg cagcgtcgtt ttccgctcca cgactccggc gacttctcac cgtcgttcaa 240  
 tgacgggtccg atctaagatt cgtgaaattht tcatgccggc gttatcatca accatgacgg 300  
 aaggcaaaat ccgtgtcatg gatcaaaaca gaaggcgaga aactcgccaa gggaagagag 360  
 tgtttgtggtt gttgaatctg ataaaagncg atatggatgt agaaacgttt tacgatgggt 420  
 ancttgctgc gattgtcgtc ggagaanggt gaaacagctc cggttggggtg c 471

<210> 6823  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-118-Q1-E1-G12

<400> 6823

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 ngcgaaccga cagagaaaaa aaatgtcttc gccagcaaa cgcagagaaa tggatatgat 180  
 gaagctgatg atgagcgatt ataaagtgga aacgatcaac gatggcatgc aagaattcta 240  
 tgttgaattc aatgggtcca aagacagtct ctatcaagga ggtgtgtgga agataagagt 300  
 tgagcttcca gatgcttata cttanaaaat tccatctggt ggtttcanta cgaaaattta 360  
 tcatcctaata gttgatgaac tgctgggggt ctgtttgttt angatgttnt taaacaaaac 420  
 ttggggagtcc tangntcgac cttgtnaaat gntgtttgag aacatttt 468

<210> 6824  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-118-Q1-E1-D3  
  
 <400> 6824  
  
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 ccatcttcgc tcagatcttc cccgtttcaa ctctttggat ccagattctc ctctttttta 180  
 tgtaggtaac acgcataatca agtggttaaag agtcaagatc acaaaaagtt ctatcgggtg 240  
 atctgggctg ctttcttttg taatcnaatt gcagaaactt tgctctgact tggatagctt 300  
 cgtaaaaggt tcaatctttc tccgtttttc atcaatgagt agtaactaat ctggaaatct 360  
 gttgggaaga gaaagggcac attgcactgc tattgctaga gaangtttct gcatccatgc 420  
 tgggtagaga gcatgcgtgg anactgtgtt ttgggggtgat gcccct 466

<210> 6825  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-H4  
  
 <400> 6825  
  
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 tctttttcct acagtcttcg ctctgattat cgtcttcata atggtttctc caattacatc 180  
 agacgtaact caattcgann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnatctgt tttgttcaac ggagttcaat gcttaatggg 300  
 cgtctcttct cgacttctac tcccaatcca gaccaaacca ccaccaagac taaggaaatc 360  
 aagacaacct cgtcggattc aagactcagc tatggctgac atgaagattc tccgtacgct 420  
 tgctggctat ttgtgggatg agaagacaat ccagaaattc cgtttcaagg gtcacgcgtg 480  
 ctttg 485

<210> 6826  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-H7

<400> 6826

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 tcttcgtctc ttcaaccttc aattttgcaa accctaaacg ttctggtcgt tagtcgcgcg 180  
 tactcagatt tcaatgttga tcgtcgatta tgtgggtgat tgctacgtcg ttaccagat 240  
 gttccattga tattctaggc atggcacaac catgaagagc tttctggcgt gagatacaat 300  
 atcatctttg ttggatcaac atgtcttttc atttgataa gaccgagctg atgaagagtc 360  
 attgactcat tgttcctata gtgcatcaac taaatctttt tgtatgagga cacactcaaa 420  
 agcattctcc ctctgagtgg ccaaagggtg ctgtgctact ttcttctctt ctatggaggt 480

<210> 6827  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-A2

<400> 6827

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 aaaggtagtt ctgaggtatt gagatcattg gattcaaaga gatcattgaa agaacaactc 180  
 gaaaacgctt tttcggttaa ggaatctcct atatggatgg atagtantac tacattgcaa 240  
 tgtaaagaga ttgagaatgc tgttggtgga gctatggagt tgtcgaagat cactggctct 300  
 cgtgcttatg agcggtttac tggccgcag atacggaagc tttttatgac tcagggggag 360  
 gtgtatnana gcacggacag gatttcgctt gttagctctt ttatggcgtc cttgttggtt 420  
 ggacaataag cttgtaatga atnaactgat cctgcctggg aatgaatt 468

<210> 6828  
 <211> 382  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-A3

<400> 6828

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tgaagaagga agacatggca aagactacgt ggatccacct ccagctccac ttctagacat 120
ggctgagctt aagctctggg ctttttacag agctatcatc gcagagttca tcgccactct 180
cctcttcttc tatgtaaccg tagctacagt cattggccac aagaacaaaa ccggtccttg 240
tggcgggtgtt ggtttactcg gcattgcgtg ggcctttggt ggcattgatct ttgtcctcgt 300
ctattgcacc gccgggtatct ccggaggtca cattaacca gctgtgacat ttggtcctgt 360
tccttgggtc ctaaaatgtc cn 382
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<210> 6829  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-A4

<400> 6829

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ggaanaagga cttcactttc acggcgaagt taggattcgt gttctttaat cgtataggag 120
gtctcggaga ttgtgagacg ctaatgagtc ggaatgatga naatcatgtc aggtaagttc 180
ctgattctaa attttaatgt cataaacatg ataacatcan ttagtagttt ggcttcgaaa 240
ttttgtaatt ttgggtgatt cangacaagt tggctgtact ctgggtggact ttacgnaagt 300
agccatcaca atgattgtat acctcaaang tttttacca tctggtgagt aaagagcgat 360
ttgtgagatt gacatgcac tccaagtgat tgatcaattn tgtgtgttgt acggttaagc 420
ngcaatttga acaggacgga gnatg 445
```

<210> 6830  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-A6

<400> 6830

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 ggcccacagc aatgtcttcc tagggttcct aagcttgctg cttcttctgc tcgtgtttct 120  
 cctgggtgat atgctgtgaa gccgattgat cttctgttaa aaggacgaac tcacgaagt 180  
 agaagatgtg tagctcctgt gaaaaggaga attggatgta tcaaagcggg ggctgctcca 240  
 gttgcaccgc cttcagctga cagtgcagaa gacaggggaa agtttagcaga aanctatgga 300  
 ttcagacaaa ttggagaaga tcttcctgag aatgtcacct taaaagatat catggatata 360  
 cttcccaaag aagtgttttg aagaattgag gattctgaaa agcctttgaa antccggg 418

<210> 6831  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-B1

<400> 6831

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 acttccttga gctatcccgg agagggtact atgacaacgt tctgtttcac agaatcgtca 180  
 aggatttcat tgtgcaaggt ggggatccta caggaactgg aagaggtggg gaatccattt 240  
 atggttcgaa gtttgaggat gagataaaca aagagttgaa gcacacagga gccggaattt 300  
 tatcaatggc gaacgctggg cctaatacaa atgggagtca atttttcatc accttaacct 360  
 cacaaccgtc cttggatggg aaacacacaa tatttggtta attttgccaa ggcattggagg 420  
 ngattaata 428

<210> 6832  
 <211> 409

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-B10  
  
 <400> 6832  
  
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 tcaactcaaat cttcaacgct ttaatgagtc ttatgaggaa atttatattc aaagttctac 120  
 gcgtcgggtcc aatccctact aacattttctt tcatcatgga tggaaaccgt aggttcgcca 180  
 agaaacgcaa tcttgaaggc ctagacgcag gacacagagc tggtttcata tccgtcaaata 240  
 atattcttca atactgcaaa gagattgggtg taccgtatgt cacactctac gcatttggtgta 300  
 tggacaattt caagagagga cctgaagaag tcaagtgtgt gatggatcta atgcttgaga 360  
 aagtcnnagc tcacgattcg attnaagctg tatcanggae tatgaacgg 409

<210> 6833  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-B12  
  
 <400> 6833  
  
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 cttttactcc ggaaggaaga tccagaaagg ttttctttcg atcgttgctt ttgactatgc 180  
 atagatctgg tacaacaatg gcgtggaacg tattcaagtt ctgtactgcc ttacgaggtc 240  
 ttggatcgat catgatcctt ttgggttctg gtgttgctgg tgttacttat taogctgtcg 300  
 ttttgactaa ttatggtcct gcaactctctc aaggtggcct tgattctctt gctgctctca 360  
 ctatcttaat cctcttccat ttctctctgg caatgctttt gtggagctat ttctcaatgg 420  
 gttttactga ttcttgngg ttgtgcc 447

<210> 6834  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-117-Q1-E1-B3

<400> 6834

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cattgatcag tacaacatct atgcgccgcc gtgtaacaag tcaagcgacg gtggtggtag 180  
ctacaatggt tcttccggcc gccggagtat ggggttctct caccttcccc actccgtatt 240  
gaggaaaatt tccggttatg atccatgtnc cgagagatat gcagagatct attataaccg 300  
gcctgatggt cagaaagctc ttcacgcaa caccaccaan attccgtata aatggacagc 360  
ttgcantgag gtgctaaacc ggnattggga acgaaccnag atncaagggg tcccccnat 420  
ataccggga 429

<210> 6835  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-117-Q1-E1-B6

<400> 6835

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gtttcaatgc tatgattaga ggatctatca acgaaggaaa aatggacgaa gctgaagcgt 180  
ggtacaaaga aattgtgaag catggttatc gtcttgataa agctaccttt gctttattgc 240  
ttctgctat gtgtaaagca ggtgactttg agtctgcgat tgagctcttc aaggagacat 300  
tcantaagcg gtatcttgtc ggtcaaacia cgttgcagca gttagttgat gaattgggtga 360  
aanggtctaa gagagaanaa gctgangaga ttgtgaagat tgcanagacc aaatgnnttc 420  
ttaaaagt 428

<210> 6836  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana



<223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-B9  
 <400> 6836  
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 aacctagaat gtgtttaatc ttgtttattg ctttaatgag agtaatgtcg attgtttctg 120  
 ctcatgagag ttgcacaaat gttctaataca gcatggcgcc gtgtctcagc ttcactactc 180  
 aaaacacttc tctcccgctc caacaatggt gtaaccagtt ggctcatggt gtccggtatt 240  
 cttctgagtg tttgtgtcag gttctcgatg gtggagggtc tcagcttggg atcaatgtta 300  
 atgagacaca agctcttgct ttgcctaaag cttgtcatgt tgaaactcct cctgctagtc 360  
 gctgccaaan tnggtcctcn ggtaaattca aattcagaac atggaaatgg t 411

<210> 6837  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-117-Q1-E1-C1  
 <400> 6837

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 atgaatggtg ttgagaagct aagcagcaaa tccacaaggc gtgtcgcaaa tgccggaaag 120  
 gcaacactgc ttgctcttgg caaagccttc ccaagccaag tcgttctca ggagaatcta 180  
 gtggaaggat ttctacgaga caccaaagt gatgacgct ttatcaaaga aaagctggaa 240  
 cacttggtgca aaacgacaac cgtgaagacg cgatacactg tggtgacgag agagatactg 300  
 gctaaatacc ctgagctaac aacagagggt tcaccaacaa tcaagcaaag acttgaaatt 360  
 gcaaacgaag cggttggtga aatggcaatg ggaancnntt taaggtnгаа ccaaggaatg 420  
 gggaaggcca ntggaaaaca t 441

<210> 6838  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations

<223> Clone ID: LIB24-117-Q1-E1-C2

<400> 6838

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aaagaatcat ggcacttgat ctctctcatg gtgggtcatct ttctcatggg tatcagactg 180  
acaccaagaa gatatcagct gtgtctatct tctttgaaac aatgccctat agattggacg 240  
agagcactgg ctacatcgac tacgatcaga tggagaaaag tgctactctt ttcaggccaa 300  
aattgattgt tgctgggtgca agtgcttatg ctanattgta tgactatgcc cgcacagaa 360  
angtctgtna caagcaaaaa agctgttatg ctagcaaata tggcacacat canttggttt 420  
g 421

<210> 6839

<211> 492

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-116-Q1-E1-H3

<400> 6839

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aacaaagtga ggtaggttc catctccacc tctttctctc tcgaatcttc tccgattaaa 120  
ggaacaaggt ctggtttaca aaagtctcat agatgtcgag tggaacagtg agaagggttt 180  
cacgtcaaga tatacaactg gttcaaaacc ttatagaacg atgccttcaa ctttacatga 240  
atcagaaaga agttgtggat actttactag agcaggctaa aatcgagcct gggttcacag 300  
aactagtttg gcagaagctt gaagaagaga atcgggagtt tttcaaagct tactatctta 360  
ggctaattgg taaacaccag ataatggaat tcaacaagtt gcttgagcag cagggtcacc 420  
acatgcgtca gatgcatcca actgggtggt gcttctgtcc aaaacacaaa tggttctcat 480  
cttcaatcaa tg 492

<210> 6840

<211> 492

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-F12

<400> 6840

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 ggaagagcca ctgggtcacg cagcagctat aatcacagat gttctagaga atgcagaaac 120  
 caatcaagtg ataaacgctt ctcagaaaacg aacgctgctt caagaaatgg ctctacggct 180  
 aacttaaaac aggggaaaaa aaaagaaaag acagaagaca aaaccttccc tcttcaacaa 240  
 ccaatcaatc atcactgggtt agttacaaat atttacaat gcgtgtattt tacatatctt 300  
 gtacctctgc ctaatgaagg gaatgttaa aagtcttgaa gatcgaaatc cgctgattga 360  
 caaagcgggt tctgtgtgga agtaggaaaa aggaaccaa aattggaatc tggttcctag 420  
 atttttgggc tgttctcata agtgaatgan agcaaacgt gtttaattat ctctgtcttt 480  
 ctcatatttt an 492

<210> 6841  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-F4

<400> 6841

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 aaagcccaaa aacggaaacg cctaaacaaa tacgacggcg aatcaaaaac tccggccaat 120  
 aaatcaaccg tcgacggcgg caatccttac cctacactac ttagacctac cgctgaagaa 180  
 tgccgagacg taagggatgc tttgttgtct ctccatggat tccctcccga attcgctaat 240  
 taccgccgtc aaagactccg atcattctcc gccgtcgatg atcacgatac acagtgtaat 300  
 ctgaaatctg agacattgaa tgaaacggaa gaggagagtg tacttgatgg gcttgtaag 360  
 attcttctct cgcaagaata caactgagag caattcccaa agggcttttg cttctcttaa 420  
 agctacattt ccgaaatggg atgacgtttt gaatgctgag tctaaatcaa ttgagaatg 479

<210> 6842  
 <211> 443

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-116-Q1-E1-F5  
 <400> 6842  
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 cagcggtttat gacgatttat ctcatgggtat tgacagaact gccgaattaa cggttggacg 180  
 ctttggtggg atcgatgctt tagcacagga gtatggacaa ggtatggcta agcaagggat 240  
 ggatgtatta ctttccacat tatcaaagct attcaatctg ttggagacat ctcataaagg 300  
 ccaaattggt ggggttatcg tccttgatga gagagtaaac caagaatcag aaaatctttt 360  
 gaactttggg tcttcccgtt catctgcacg ctcaatgggt gaagtggagg gaattccaaa 420  
 gtgcagccat tatccctgag gtt 443

<210> 6843  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-F6  
 <400> 6843  
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 cgcgtggggg tcaagggtga agctaagaaa ggagaatggt tgcccgggtt ggcattgcct 120  
 gattatctca ccggcagttc tgccgggtgac aatggggttg acccggtggg tctagcagag 180  
 gatccaagag aacttgaaat gggttcgtcca ggcagagctg gtcaacggac gatgggctat 240  
 gctcgggtgc gctgggatgc ttttgcnga agttttcacc aagattgaat cacaaatggt 300  
 cctgagtggt tacaatactn ggaaaaagca ctattttgca ncgcnccta cattgttccc 360  
 gatntagttt tcatattgtn ncattacntt gatatcacac ggtggcaana catcaagaac 420  
 ccaggatgtg tgaaccaaga ccctatcttt acgcaatata gnttaccta gggtnaattt 480  
 ggttaccctg g 491

<210> 6844

<211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-F7

<400> 6844

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aaaggggttaa tttattaata aaaaaaaata aaaagaagca gaaaagagat aatgcagggg 120
ggtaggcttt tgacgggtgtt ggtgtgcctc gcctccacgg tggcggttggg gagcgccggg 180
gacccttact tctactacac gtggaacgta acctacggaa ccgccgcgcc tctcggaatt 240
cctcaacagg tgattctcat caacggacag ttccctgggc ctaacctaaa ctcaacctcc 300
aacaacaatg tcgtcatcaa tgtcttcaac aacctcgacg agcctttcct cttgacctgg 360
agtggactcc aacacangaa gaactcatgg caaagatggg gtgactggga cctcatgcc 420
atcccaagca aggaacaaac ttcac 445
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<210> 6845  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-116-Q1-E1-F9

<400> 6845

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ttcacgcata aactaggggt cccccacaaa tcatcttaca cgtatcctct attccttcc 120
tcctttctcc gtcacatca tttttccac cgacaacaat ctctcggagt ttgggtatta 180
ttacttctct catcaaccaa ttgtaccact agatctccca gattccttca ttatctctat 240
caataatggc gttgaagtct agttctgctg atggtaaaac cagaagctct gttcagatct 300
tcattgtgtt tagtttatgt tgcttctttt acattttggg agcatggcaa cgaagtgggt 360
ttgggtaaag gagacagtat tgctcttgag atgaccaaca gtggagctga ttgcaacatt 420
gttcctagct tgaatttcga gactcatcac gctggcgaa 459
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<210> 6846  
 <211> 485

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-G12  
  
 <400> 6846  
  
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 gaagcagcga aaattgcacg ctctgtggct tcctcttccc tgggtcaaagc agctgtttat 180  
 gggagagatc caaactgggg acgcatagct gcagctgctg gctatgccgg ggtttctttt 240  
 cagatggata agctgaagat atccctcggc gagttctcac tcatggagag tgggtcaacct 300  
 ctcccgtttg acagggatgg agcaagtaac tacctcaaga aaaccgggtga ggttcacgga 360  
 acagttacaa tcgatatatc cgtaggtgat ggtgcagcca tcggaaaggc atgggggatgc 420  
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 gagac 485

<210> 6847  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-G2  
  
 <400> 6847  
  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnagaaag cccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 aggagcgctg ttgggtgatg taatcttaat aataagaaga agaagattga taataattcc 360  
 tcctctaagg atggctgtgt caagcctaaa cgtcagatga aaactccgtt tcaacttgaa 420  
 accttgagaa aagtttaatc agangagaag tatccgtccg gacgcaatgg aaac 474

<210> 6848  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-116-Q1-E1-G5

<400> 6848

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 gaacagacta cttagtggct cctcctgaca cagagatcat agatcatctt gagataccgt 180  
 cgacgattcc agattggata acagaagaag agattcaagt gtatgcggaa aagtttcaaa 240  
 gatctggatt cactggccct ttgaattact acagatccat ggatatgaat tgggagatat 300  
 tggcgccgtg gcaagactcc aaaatcgtcg ttctactaa gtttatagcg ggagacaaag 360  
 atatcgata tgaaggacct aatggaacaa tggagtatgt gaaaggagaa gtgttcaaga 420  
 ttgttgtgcc taatcttgag ataa 444

<210> 6849  
 <211> 509  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-G9

<400> 6849

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 gcgagccgct aaactggaga agttgctccg taaacaggaa cgagaagaag ccacatcatc 180  
 atctctttct ctggaggagg aggatgaatc gtgttccagc aactacggtg acgtgactac 240  
 taacgagttg cagtcggctg ttgagggaaa agagctcact gatgtgagca acttggttga 300  
 agagattgtg gggtcagagg ttctgatcag aggtcgactg cacaagaatc gcttagtcgg 360  
 taccaaattg tttgtgatct tgagggaaaag tggattcacg gttcaatgcg tgggtggagga 420  
 gaccagagtt ggtgcaaaca tgattaaatt tgtcaagcaa ctgagtcgtg aatctgttgt 480  
 tgagcttatac ggtgtctctc tcaacctaa 509

<210> 6850  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-H1

<400> 6850

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aaaaactcaa aatttgaaga tgaaggacag agaggaatca tcacgtctt cttcttcaat 120
gacaacaana aaaaactaat ggaataatca acaacggcga acacgaacct cgagatatca 180
acatccgatc attctcttct gttccttctt ctctcgttaa cgcttcttcc aaatacgatt 240
tcgtcaaggt caaagtatgg cttggagaca acgcagatca ctactatgtt ctgtctcgat 300
tcttaagtct gtagaatgtt aactgttact aagatcccaa atcatgaagc tataaagatt 360
tctcttgaac tcaagaagct tctaattgac aacaagtctt cttgatgtct ctcagtctga 420
tttggaacc aatttgttta agctaattgga gcgacgtggt tatggngaaa gaagtacatt 480
aatc 484
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<210> 6851  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-H10

<400> 6851

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tcttcaaagc tcaaaaagca atgactcgac cgtcaagatt acttgagacg gcggcgccac 120
caccacaacc gtcggaggag atgatcgag cggaatccga catggtggtg atcttgtcgg 180
ctcttctttg cgctcttctc tgcgttgctg gtctcgccgc cgtcgtacga tgcgcttggc 240
tccggcggtt tacagccgga ggagattcgc cgtcaccgaa canaggcttg aaaaagaaag 300
ctcttcagtc tcttccaang atncactttc accgccgcgg aatcatcctc nggcgcccgn 360
cgctgaagan ggagatcgac ggaatgtgct atttgcttca ntgacttcgc cggaccggtg 420
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aanga

425

<210> 6852  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-116-Q1-E1-H12  
  
<400> 6852

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gaacgacant tacacctgca gatttcctca aatccatccg tgggagaccc gttgttgtca 180  
agctcaattc tgggtgttgat tatcgaggca ctcttacttg tcttgatgga tatatgaaca 240  
tagcaatgga gcagacggag gagtatgtaa acgggcagct caagaacaaa tatggtgacg 300  
cctttatccg tggaaacaac gttctttaca tcagtacagt aaacatgact gtagcagacg 360  
gagcctangc ccatcatgat catcaacaac aacaacagtg gtcatgttat ggctgccatt 420  
tttgttgtct tcttctacct catattaaaa gagtatagac atgtaccaag attgtcatcc 480  
tangttcttc aatag 495

<210> 6853  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-116-Q1-E1-F11  
  
<400> 6853

attccccggg cgncccacgc gtcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
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tcaagtgtga tctatgaagc gcaaggaacg ttcttactaa accattactt gaagaagaat 180  
tttccaaaaa aatgcaacga gtttacgcct tacgctaaca agggatatgat aacgttggtg 240  
accgatctcg aaggtagcag tccggccact acagagttca agactttctt tacacagttc 300  
aagtcttaca tgtctttcat cgagacaaca tcggcctcaa caaaaaatgt tgatgccgag 360

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng gatcgtggac 180  
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<223> Clone ID: LIB24-116-Q1-E1-D5

<400> 6856

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gatactgttg gatgatgtgg ggatggatta catctgcaca acagcagagc ggttttttgc 180
agttggtcga gtgttgggaa atatggttca gtcacttggt gagcagcctt ctccgcgcct 240
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-116-Q1-E1-D6

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caaaactaaac ctacaccacc accaaatctc actcttcctt ctccaacaat ctcccaaagg 180
cgaagaaatg atctcgctat cgaatcaatg gcggtcgaag aaacttctct aaccgcttct 240
tcactttcct ctgagcttgc ttccgtgatt tgtccctcgc ttgcttactc naacacactc 300
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ncgttcataa ggcagcttgc tttttgtcct tccgatgtcg gctccttccc tancaattgt 240  
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ctatgggcta ctatctggga agttagtaat acagtgttnn nnnnnnnnnn nnnnnnnnnn 240  
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gctggagaga ttggtattcg tgggtatttg cttagagaac ttagatttaa atgggcaaga 360  
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cggttttggg gtgagcagag gcagtctact cggcgaaaga gtgttcattc aattgctcgg 240  
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 tgagcgcctt gtgcaatcaa tggatgaaga agttctcaca gatgcattgt gggctctgtc 360  
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gaaatctttt acaagacgaa gaagattttg tatcgtggac aaaggtgcaa tatcattctc 180  
caggataaga atggaccatg tcctctcatc gccatttgta atgttcttat cttgaaacac 240  
ggaattaatc tagacactta caattctcaa gtatctgaag aggatttggt gaatcttggtg 300  
atcgatgtac tgggatgata cagacgagta cattgatatt gggctcatca gaaaacttgc 360  
ttgtgggata aatgtcattt gaaattcgag aaggattacg gattttgagt taacactgga 420  
gctagaaaaa ttccgtcact taagaatccc ttgtancang gatggcnagt tattccacgg 480

<210> 6877  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-115-Q1-E1-C10  
<400> 6877

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 gctgagaaat cggcagagca gaaaaacaat gaaagagacg aagtaaagca aacggagcag 180  
 tttggcgggt ttccaggagg agggatatga gggttcccgg gaggagggtta tggaggaaac 240  
 cctgggtggag gatatggaaa ccgtgggtgg ggatatagaa accgtgatgg aggatatgga 300  
 aaccgcgggtg gaggatatgg aaaccgagga ggaggatatt gtcgctatgg ttgctgctac 360  
 agaggctact acgggtggctg cttcaagtgt tgtgcttatg ctgggtcaagc tgttcaaact 420  
 cagccacaga gtactgagcc gggtcactaa aatcctaaaa tg 462

<210> 6878  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-115-Q1-E1-C11  
 <400> 6878

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 gctcttggcc gctacggctt cggcatccgt tccagggtc atcgaactcg tcgattcgaa 120  
 aaccatcttt gggaacgtag ccgaactctt agagaaagag aaactttcca tcaactacgc 180  
 caactgcaga agctggcacc ttggtgttga gaccttaac atcatagact tcgacacggg 240  
 gcccgcaaat tgcaaagact atgttgaaga ctacttgatc acttccaaac agtaccaata 300  
 cgactccaaa accgtgtgca aagaggctta tttctatgcc aaaggacttg ccctaaagaa 360  
 cgacaccgtc aatgtttggg atctttgacc taagatgata cctcctctct agtattccct 420  
 actacgcaaa atatggatac ggaacagaga agaacgaccc gggggcggtt 469

<210> 6879  
 <211> 558  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-115-Q1-E1-A4  
 <400> 6879

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gtgggttagg tttgattctt ctggctctgt tttgttctgt ttttggtggt taattcttct 120  
tagcaagcaa gtaatattcg atcgtcactg tttttgcttt gattttgtga tttctctatc 180  
aaagattaga actttacgtg accctttaag cgatcaacaa ttatctcact gttttttcag 240  
ataagggtat atgagtttgt tggacatggg tggagatatg atggaagatg attgggaatt 300  
tgcgtcatca tcaaacccta aaagaaccct aattccttgt gggccgtact gggaaacgga 360  
aagaatgccg acaaggtaac aagtatccct tgggtgggaa aanctttaag gtcaaagaac 420  
ctaanaactg gtaggaagtg acaagcacgt gccaaagtcac aagagaagtt tgttcaaaga 480  
aagaatgggg gataaccaat taaaggttgg ttgaaaacnc cctggggttg gtttgaattt 540  
gtccaacngg caaccgga 558

<210> 6880  
<211> 474  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-H1  
<400> 6880

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aagggtggag cattcgacga tgggtgtttt gatggtgtga agaaagtaat tgttggaata 180  
gacttcaaca atgtaactta tatcaagggt gaatacgaaa aggacggaaa attcgaaatt 240  
cgtgaacacg ggactaatcg cgggcagcta aaagagtttt caagtgggat tctcctaatt 300  
aacatattac atcggtcgag gggaacaatc catggttacc tttcgtcgct gaagtttacg 360  
acatcaaaaa ggaanaacct cccctgtttt tgggaatgtg gtccggtagt aaaatttgtg 420  
ttcgaaggaa acaagtttta aacntgttgg ggttttgtgg gnccattcgg gtga 474

<210> 6881  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-H12

<400> 6881

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ttgtagctgc ggtggcancg gaagaggang agaanaagag gaanaaaccg gttttgggag 120

aagaccacac tataatggaa gcagtgttga ccgttgactt ttgggtgctt tttgtgtcct 180

tcttgtgtgg tgtaggaact ggttttagctg tgatgaacaa tatgggtcag ataggtcttg 240

cccttgata cacaatgtc tcaatctttg tctccatgac tagtatttgg ggattcttcg 300

gtcgcattct ctccggtact ctctccgaat actttctcaa gaaagctgga acaccaagac 360

cactatggaa tgcagcctct caaatcctta tggccgtagg atatatacta atggcttttag 420

ccgtgcctaa ttcactctac atcggttcaa tgggtggttg agtatgttac g 471

<210> 6882

<211> 482

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-114-Q1-E1-H2

<400> 6882

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tctcttctgc tcttttagtc cctcgttcgt tctccatgcc agggacaagg agattcatgg 120

ttctgtgtag ttcccagaag gaaagtcaga tgacagtgtc agtaactgga gcaactggat 180

tcatagggag acgattgggt cagagacttc gtgctgataa ccacgctatc cgggtcttaa 240

cacgctctaa atccaaagct gagcaaatat ttctgcca ggacttccca ggtattgtga 300

ttgcagaaga atcggagtgg aagaactgtg tacaangctc tactgctgtt gtgaacttgg 360

caaggactgc ctaatagtac aaggtggtct cccgagatna agaaagagan taaaggcaag 420

ccggattcgt gtcacctcca aaagttgttg acctaataa taattcacca acanaagcta 480

gg 482

<210> 6883

<211> 458

<212> DNA

<213> Arabidopsis thaliana



<223> unsure at all n locations  
 <223> Clone ID: LIB24-114-Q1-E1-H3

<400> 6883

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 atactatgtc gggtcaciaag ggaaatttgg acacgagttc ctggagttcg agtttagaga 120  
 ggacggtaag ctccgttacg ccaataactc taactacaag aacgatacta ttatccgcaa 180  
 ggaggtatct ctcacccccg cgtgctcaa ggaatgcaag cgtatcgtct ccgagagcga 240  
 gattctgaaa gaagacgata acaattggcc ggaacctgac cgtgttgga agcanagagc 300  
 tcgagatcgt cttgggtaat gagcatactc cattcgctac atctaagatt ggattttcttg 360  
 ttgattgcna anaagcagta atgatactga agggactcgn atcttctant atcttgttca 420  
 aggnctttgn aaatgtcctg tttttttcgc tcaaccnc 458

<210> 6884  
 <211> 515  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-114-Q1-E1-H4

<400> 6884

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 catgcccatc aatgccatct cccagcaatc ttttaactttg gtgactctaa ctccgatacc 120  
 ggcggtctct ccgctgcttt tggccaagct ggtcctcctc acggtctctc cttctctcggc 180  
 tcacccgcgg gacgatactg cgatggctgc ctcgtcattg acttcatagc ggagagtctt 240  
 ggattaccat atctaagcgc gtttctagac tccgttggtt caaacttcaa gccacggcgc 300  
 taacttcgct accgcgggat ctccgataag agctcttaac tctactctac gtcaaagtgg 360  
 attcaagccc attttcactc gatgtacagt tcgtacaatt ctataacttc cacaacagat 420  
 ctcaaactgt tcgtantcgt ggaggagtct acaagacaat gttgcctgaa atcccgacaa 480  
 gcttctcaaa aagctttgtc acttttgaca ttggn 515

<210> 6885  
 <211> 468  
 <212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-114-Q1-E1-H5

<400> 6885

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tagtaaattgg aaaatgaaag ttggaaaagg accattggac ctcagtagcg aaagtccttc  120
aagtaaaca atgcatgaag atggaggctc gagtttcaaa gctatgtcta gccaccttca  180
agataacaga gaacctgagg cgcctaacac tcacttgaaa acttttagata caaatgaagc  240
ttctgttaaa atttctgaag agctaattgca cgtggaacat agttcaaaga ggcatagagg  300
aactaaagat gatgggacac tagttaggga tgatcggaat gtgctgaggg gttcagaggg  360
ctcagctttc tcaaggtact ttcttagaat caaacctctg ttttttcttc cgtacacaac  420
cttttgaatg ccttattgaa gaactatgag atcgactgtt gggacttg               468

```

<210> 6886

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-114-Q1-E1-H6

<400> 6886

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tgtctttgtg tatccttctt tcaagcttcc atgagggttc ttgtcaggat gatggtagtg  120
gtttgagtaa tttggatcta atagaacgtg attatcaaga tagtgtcaat gctcttcaag  180
gcaaggacga tgaagatcag tctgcaaaga tacagagtga aaaccagaat aacactacag  240
tgactgataa gaacactatt tctctatctc tatcagatga atctgagggt ggatctgtta  300
gtgatgaaag cgttggacgt tcgagtctgt tggatcaa at caaacttgaa ttcgaagctc  360
atcacaatag tattaaccaa gctggatctg atgggtgtcaa ggctgaatcc aaggatgatg  420
atgaagaatt atctgctcat agacagaaaa tgttggaaga aatcganc               468

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<210> 6887

<211> 465

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-114-Q1-E1-H7

<400> 6887

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnngat aatgggagcc tatgaaacag aaaaaccaac taaagatgcg 180  
 gcggctctag agacacagtc gccggaagat ttgatcaac catctccgct tcgtaaaatc 240  
 atctccgctg cttccatcgc cgccggtgta cagttcgggt gggccttaca gctctctctt 300  
 cttactccgt acgttcaact cctcggaatc ctcacaaat ggtcatctct catttggtc 360  
 tgtggtcaag tctccggcat gattgttcaa ccaatcgctg gggttcacag tgaccgatgt 420  
 aggtcaaaat ttggtcgccg tcgtcctttc atcgcaaccg gagcc 465

<210> 6888  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-114-Q1-E1-H8

<400> 6888

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 cacaagataa acagcttcga cacagcgctt gctaagctct tggcttcaga ctcacgtatc 180  
 cgtcctgata gatattccct tgagcagggt gacctttcta aagctgggtc cgagaaacac 240  
 agccttgagg agagacaaag ggccgaaaag aggaccagag agacaaaggg acaaaagtgc 300  
 actccaagat ggttcgatct aacggatgag atcacacctt ctccatgggg agatattgaa 360  
 gtataccaat acaacgggaa gtacaattga acaccgagac acggcagaga gctcaagtag 420  
 tgctccaaa cgaaaacgga cctcaaattc gattcgagtt naatcccttg gcaatatggt 480  
 aatatctcaa accgaatg 498

<210> 6889  
 <211> 429

<212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-114-Q1-E1-H9

<400> 6889

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 atgttgtggc tcttattgtc aacttcttat cagcctgcct cactgggttag ttcccaaccc 180  
 acatttattt ttctcttggt caaaagacta atctcctcag ggattgcaac taacttctct 240  
 gttacattga cactaactac tgtgggtctc aggaaacgcg cctctgactg ctgtccaact 300  
 actgtgggtt aacatgataa tggacacact tggagcactc gcgctaacga ctgaaccacc 360  
 acaggncgac ctgatgaana gatttccaat gggaaagaaa ggaaacttca taagtaatgt 420  
 aatgtggan 429

<210> 6890  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-115-Q1-E1-A1

<400> 6890

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 ttactcattc ccgtgatcct actttgggat ttcgctagaa gaagtttagg tgacgacctt 180  
 aatttaagtt tgtaaatgca ggtcctttct ttctaggggt tatcgaaatt ggtgtaaate 240  
 ttttggaatt ggtttgagat tttttctttt ggggaattgc aattcattaa gtcgtcgtga 300  
 tccagtgtgt ttttaagtga agtaaggcat tttcgatatt cgggagacttt taggtcaatg 360  
 tcggctccaa ccgcgaattc cggccggtgg gattcaaccc gaccggagaa ntcaagatta 420  
 agttctctggg ccccgccngg naataancct gcaancaaga aaaccgttgg tcaaaag 477

<210> 6891  
 <211> 509

<212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-115-Q1-E1-A10

<400> 6891

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 ctaagctaag gaaggagtgg attgatcgtc gggagaagct aggaacacca agatacactc 180  
 aaatgtacta cgctaagcaa gggatcataa ctgaggaaat gctctactgt gctactaggg 240  
 agaagctaga ccctgagttt gtaagatcag aagttgcacg aggacgggag attatccctt 300  
 ccaacaagaa gcatttggag ctggaaccga tgattgttgg tagaaagttc ttgggtcaagg 360  
 tcaatgcgaa tatcggaaac tctgctgttg ccagctctat tgaagaggaa gtctacaagg 420  
 ttcagtgggc aaccatgtgg ggagctgata caatcatgga tttctcaact gggctgctac 480  
 atccatgaga cacgtnagtg gattctaaa 509

<210> 6892  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-115-Q1-E1-A11

<400> 6892

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 tttcaagaca catggaagag catgggctag agtttcttca atttgctttc cgggtggtata 180  
 attgtcttct gattcgtgag atcccattca atctcatcaa tcgactatgg gacacttata 240  
 ttgctgaagg agatgcgttg ccagacttcc tgggtgtatat atatgctagc tttctcttga 300  
 cgtgggtctga tgagctgaag aagctagatt ttcaagaaat ggtaatgttc ctgcaacacc 360  
 ttccgacaca taactggtca gaccaagagt cgaaatgggt tgtcaagagc ttacatgtgg 420  
 catantaagt tcaataattc ccaaaaccat ttggctaact gaaatgactt ttcctnc 477

<210> 6893  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-114-Q1-E1-G9

<400> 6893

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caattcattt ttactaagac gacgattcga gcatcccatt ctgcgttgac gatattctcca 180
aatcgatgca aaacgtagag gttgcagagg ttgatcctcc tccgttgatc cgccaaaact 240
ccaacttcat gttcttggtg gaaagggtcag attgaagtag tcaaagttcc ctatacccga 300
tcgatcgcta ggacattttc agattaggag atcagtattg tgctttcaaa aacaaagcct 360
gtacattagt acatatgcct atctttgccca attggctttc tggtagctgc ctactaatta 420
ataggggtat attggggtag gaaaaaatat atatattgta actaaaatat ttgttgtgtc 480
caagcgttga taaggccaa 499
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<210> 6894  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-114-Q1-E1-E9

<400> 6894

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atcaaagtct tccgttatac gcaaacccta attcctcact acacgactct ttttgatctg 180
aatcgagaga tggtagagga ggagaaagct atggaagcaa taaatgacgc tttgagagct 240
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aagcctttaa tctctcaggg ttcagaatgg aaggagaaaa cagaaaagct ggaaacagag 360
ttacagcaat gttacaaagc tcaatctcga ctatctgaac aactgggtga tagaagtagc 420
tgaatccaga acttcaaagg ctattttaca agagaaggag ttgttaatta atgacttgca 480
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gaaggaatta ca

492

<210> 6895  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-F1  
  
<400> 6895

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tacagtcaag catgtggact aaacaatgag catgatgtca tggggccatg acgactacat 180  
gtacatggaa tttaactca aggatgtgga ttaaacaata tagttaagca aagttcattt 240  
tgacttgatc ttcatacgt caacatgaac ttgatttta ctgtataact tgtatttact 300  
gtaataacaa caatatataa caattagagg ttgtagatat tatgatcaat tacttaatca 360  
tgtcttgatc ctaataacta cggctctctga attgctgtat attattatta ttacagcaag 420  
tacaagttat accgcaagat naaagttcac gttgatgttg gagaaagtc 469

<210> 6896  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-F11  
  
<400> 6896

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gcaatggggg tcgattatta caaggttctt cagggtgatc ggaatgcgaa agacgacgac 120  
ttgaagaaag cttatcgcaa actcgccatg aagtggcatc cagacaagaa ccctaacaac 180  
aaaaaagacg ccgaagccaa attcaagcag atctccgaag cttacgatgt tttgagtgat 240  
cctcaaaaga gagccatcta tgatcaatat ggagaagaag gtctaacaag ccaggctccg 300  
cctcccgag caggcggcgg gttttcggat ggaggggctt cgttccgggt caacggtaga 360  
agcgcaaagt atatcttctc ggagttcttt ggcttcacaa gancatttgg tgactcacgt 420

ggtgcaagtc cctctaattgg gttccgggttc gcg

453

<210> 6897  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-F2  
  
<400> 6897

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taacgcaggc agttccggcg aaattccgtc tccaataagg aaccgatttc aagaaaagtg 120  
ggagtcaagc ggtgtacgan gtgacagaga cgaagaaatc ttgcgtgacg agagtcgaca 180  
tgcctggggt gtcccgaagt cagatctcac ctactgggtc gacgccaaca acgtccactt 240  
cttcgccgac gaaccagcaa tgcctgagta cgaaaacgcc ggacgcaaat acggaggctc 300  
catgattttc aaccctgagg cttacgacgt caagaaaact aaagtgaagc ttatcaacgg 360  
agtgtcttgg atnaccgtcc ctaagattcc aggcaaaaac gcctccaata atgtcaagga 420  
gaagattctc caattactgg atttaacaac acccttgggt tgggtgtccg taatggga 478

<210> 6898  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-F3  
  
<400> 6898

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cggtgacctc aattattcac cgcccgatga tctccaccgg aggaatcgct gtttcccccc 180  
gtagagtttt caaagtccga gccacagata cgggagagat aggatcagct ctattggcgg 240  
cggaggaagc aattgaagac gtggaagaga cggagcggct aaagagatcg ctctgtggatt 300  
cgttgtacgg aacagatcga ggtttaagcg catcgagcga aaccagagct gaaatccgga 360  
gatntaatca cacagctcga agtctaaaga accctactcc anctccgacg gnagctcttt 420



cccttctcaa cggcaaatgg gttctcccc aanacaatcg ttccgtgaaa tttgtttc 478

<210> 6899  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-F5  
  
<400> 6899

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gtcgaaaaac gatgatgcat aattcaaccg aagaatcgga atgggaggtg agacctggtg 180  
gtatgctcgt ccaacgaaga gacgacgccg ctctctccga ccacaaacct ctccaggatc 240  
ccgactctgc ttccgcgcgt tttgctcaaa ccatcagaat cactgtttct catgggtcat 300  
cgcaccacga tcttcatatt tctgctcagc ccactttcgg ggatgtgaag aaagctcctt 360  
gttcanaaaa ctgggattgg aagcctagtt gaanttgaag atcttggtca annggatttt 420  
agaagagatg atgccngaac aattgcaanc tggccgggtg ttaaagggat gcgtcc 476

<210> 6900  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-F6  
  
<400> 6900

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tcgtattcgc tcatcttctt cgctttctga tcttggaat cgcaggcatt gttcgtctac 120  
tcgaggattt caattttggt catnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccggcgggtc gtatttccga 240  
cggaatcta atcatcaaaa accggacgat tctaaccggt gtaccaagat aatgtcatca 300  
cgacgtcagc atcggaagct gggaccggtga gaaggagtct tcgtcggagc tgtatttaac 360  
aaggaagaga gtaaacacat cgtaccgatc ggtacgcttc gcaattcccg gtttatgtct 420

tgtttccggt ttaagctctg gtgggatggc ccagagaatg ggaaaaaat 469

<210> 6901  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-F7

<400> 6901

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aaaaatctat aactgttata tcaacaaaaa attgtttatt gttatgagag ggggttaaact 120  
cttggccgag tgccctctacc tggccgctgc cgcaacggag gtagtccgag ccgaagatcc 180  
ttacttccat cacgtatgga acgtgaccta cggaacggag tctcctctcg gtgttccaca 240  
acaagtcatt ctcatcaacg gacaattccc tgggtcccaac gtcaactcaa cctccaacaa 300  
caacgtcatc attaatgtct tcaacaacct cgacgaacct ttctcctca catggaatgg 360  
gatccaacac aggaagaact gttggcaaga tgggactcca ggaactatgt gtccgatcat 420  
gcccggcacc aactacactt acaatttcaa gcctaaggat cagnt 465

<210> 6902  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-G1

<400> 6902

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ggattttatg atactgagg tgaagatcgt cctgctgac aagtaaaatt tccaactacc 120  
attgaagaac ttgaaggaaa aagaagagct gatgtagaag cacatttacg caaacaagat 180  
gttgcaagga ataaaattgc tcagagacag gatgctccag cagctatatt gcaagcaaac 240  
aagctgaatg atccggaagt tggtangaag aggtcaaagc tgatgttacc accaccgag 300  
atttcagacc acgagctaga agaaattgct aagatgggct atgccagtga ccttcttgcc 360  
gagaatgagg agctaacaga aggcantgct gctactcgtg cacttttggc aaattactca 420

caaacaccaa nggcaaggaa tgacacccat gaggacacct caaagaactc ct

472

<210> 6903

<211> 450

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-114-Q1-E1-G11

<400> 6903

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tttagtcaac tttgttccac tgaaccttct aggaagctac ctcaagtaga cagctttggt 120

gacgggcttc aagccagtgg taaagatatg cttctgtaga aggggttaatc ttgagcatta 180

aaggacatgg ctttctactc tgaagacgac aagagcgaag actacctctt taagattggt 240

ctaatcgggtg attctgctgt cgggaaatca aatttacttg ccagatttgc gagggatgag 300

ttctatccca attcaaagtc gacgattgga gtggagtttc agacacagaa gatggatata 360

aacgggaagg agattcaaag cacagatatg ggacacagca aggtcaagaa cgttttanag 420

cagtcactct gcatattacc gaggtgcaat 450

<210> 6904

<211> 471

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-114-Q1-E1-G2

<400> 6904

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gccgccgcaa gagcctatga tgcggcagca cttcgcttta gaggaagcaa agcaaagctt 120

aatttccccg aaaatggttg aactcagacg attcaacgaa attctcattt cttgcaaaac 180

tctatgcaac cttctctgac atacatcgat caatgtccaa ctctattatc ttactctcga 240

tgtatggagc aacaacaacc attagtaggc atgttgacgc caacagaaga ggaaaatcac 300

tttttcgaaa aaccatggac cgaatatgat caatacaatt actcctcttt tggttaacta 360

acatattgtc aacgctttgt atttctactt attcgattta ncaatttttt ctctcccaat 420

acaacttcag tctggattat tgccttctta gatatgtcnt cgaatgttat g 471

<210> 6905  
<211> 514  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-G4  
  
<400> 6905

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cattggacct ctctaactct cctctcttac cttctcctgt ttaaattctt ctcctttctt 120  
tccacaattt ctgtctaacc aattccaaca ccaaaaaatt ccattttcttg acgatgaaac 180  
gaagccatca agaaacgtct gtagaagaag aagctccttc aatggtggag aagttagaaa 240  
atggttggtg tggtggtgga gacgataaca tggacgagtt tcttgctggt ttgggttaca 300  
aggttcgatc ttcaagacat ggcaagatgt tgcacagaag cttgaacagc ttgaaatggt 360  
cttgtccaat gatattgcct cttctagtaa tgccttcaat gacaccgttc attacaatcc 420  
ttctgatctc tccggttggg ctgagagcat gctctccgga tcttaattac taccgggatc 480  
ttgaacccga accggatttg cgatctgaga acaa 514

<210> 6906  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-114-Q1-E1-G8  
  
<400> 6906

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tcatgcttca gttcagetta acattggtca tcttgatgct aatggtctct aactggcca 120  
attcaccact tttgctctct gcggatttgt ccgtgctcag ggagacgcan acagtggcgt 180  
ggacaggctc tggcagaaga agaaggtcga agctaaacaa cagtgagaga caatctgaca 240  
atgtcataag ctcttgtttg ttttttgagg tttcgattta ttagctatgt ggctttgtca 300  
ttgaattgaa aatggttagtt tctctttatg cnaattcatg ttttcgattt ttctgcttta 360

ttaannataa ttattaaggc tttgnggccca atggaatcaa nattctanct aaaaannaan 420  
 anaaaggggc ggccgctcta gaaggatcna 450

<210> 6907  
 <211> 375  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-114-Q1-E1-E8  
 <400> 6907

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 ctctgtatca tttccgaaga acccgttgca ccgtatgaga ggctgcctt aagcaaaggt 180  
 tttctgctgc cagaagctcc tgcacggctt ccttctttcc acacttggtg ttgagctaata 240  
 gatgagaagc ttacaccgaa atggtacaag ggatcatgga attgaattgg tacttggaac 300  
 tcgtgtttaa ntccgttgat gtgaggagga agacnctttt atcgancaca ggggagacta 360  
 taagttacaa attct 375

<210> 6908  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-113-Q1-E1-A9  
 <400> 6908

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 atcatcaagc ccggtagcgt caaactgac ccagtcttcc caaacaacaa actgacgggc 180  
 acagacgttg gttaccagc tgggttatgg ttcgaccgct tgggttgggg atccggtagc 240  
 ccggctaagc tcaaagagtt gaggaccaan gagatcaana acggaagggt ggctatggtg 300  
 gcagtgatgg gtgcttggtt ccaacacatc tacactggca ctggctctat tgataacctt 360  
 tttgcacatc ttgctgatcc tgtcaagcca caatcctcgc tgctttcaac acccaatgaa 420

gacaacccaaa aaagggttaat ggggaaggtg aatgcctttt gtggt 465

<210> 6909  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-B1

<400> 6909

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aaaactccga taaccaatct ctcaatcttt ttgtagatcc aanttttcca ggaaaaaaaa 120  
gaggtttcgc gaagaagatg agttttcaag atttagaatc aggaagagga agatcaacga 180  
ggaaattcaa tgggtggcga caagattcga cacaagccgt tgcttctgga anattccaga 240  
tcaataccgg agtctccacg tttcagcgac tcgttaacac acttgggtact cccaagata 300  
caccggagct cggggagaag ctgcacanga caaggttgca tattggacag cttgtgaang 360  
atacttcagc taaacttaaa gaagctagtg aaactgatca tcaaagcggg gtcaatccaa 420  
gtaagaagan tgcagatgct aagcttgcaa gggac 455

<210> 6910  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-B10

<400> 6910

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acaacaacag attctacaga attgcaaaat ctgatcaaac tgtttcaaaa ttgccaaact 180  
catcctcgtc aacattttcc tgcaaaatct tcagctgtan tagtttgtct ataccaagaa 240  
canngagaag acannaacga gctacgcgta atcttaacca nacgatctac tactctctct 300  
tctcatcctg gggaagtagc attgcctgga ggaaaaagag ancaaganga taaagatgat 360  
atagctactg cgttgagaaa aagctcgtga ngaaatcggg ttagatcctt ccccttggtta 420

caatcatttc cgttccttga ancatttgtt aacaangaag ggaatgtccg taacaccaag 480

<210> 6911  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-C1  
  
<400> 6911

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gggaacgatg gtgttgctgt catcaccatt tctaaccctc ctgttaactc tttagccagt 180  
ccaattatatt ctgggttgaa ggagaagttt cgtgacgcca atcaaaggaa tgatgttaag 240  
gccatcgtgt tgatcgggaa caatggaaga ttttcgggtg gttttgatat caatgtcttt 300  
cagcaagttc ataagactgg ggatttatcg cttatgcctg aagtatctgt tgagcttgtg 360  
tgtaacctga tggaagactc caggaagccg gttgttgctg cagttgaagg attagctctt 420  
ggtggtggtt tggaacttgc aatggcgtgt catgccagag ttgctgctcc gaaagctcaa 480  
ttaggcttac cagaa 495

<210> 6912  
<211> 522  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-C11  
  
<400> 6912

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agaaatggct ctctatctct cttcttcacg actcatcacc tttctctctt tcatcttgct 180  
tctctccaat ggcttctcgt cctcttctc tcgccctagc atccaccatc gtcaccacct 240  
ggacaaccac aattacaaag acgctctctc caagtccatt ctcttcttcg aagggtcaaag 300  
atccggaaag ctctctccaa accagagaat gacttggaag agcaactctg gtctctccga 360

agggtccggt ctcaaacgtt ggatttggtg ggaagatact acgatgcaag ggaacaatat 420  
gaagttttgg gattcccoaa tgggnnattc aacaaccaca atgnctctca aanggagntt 480  
taaattgaat ttgggtgggc ccaatgaaat ccgaagttac ca 522

<210> 6913  
<211> 513  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-C2  
<400> 6913

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tcncacctct cncnctcant gccgcatctt ttcttacggt tcttgtttcg ctatctctta 120  
aacacaaaca gctctgtccg aataatctct cttcaagtan ctcttttttc tgattctgta 180  
tatcccatg aattactgat ttccctctct ataaacccat caaagtaaac caatttctcc 240  
tgtgacttgt acctaaactcg atcttancag actggtgatg gcgtctttga agcctttcga 300  
tcttctagga gaanganctg aggattcaag ccagctcgct gtggctttgt ctcagaaact 360  
cgagaaaagc tgcngcngcn gttcaanctc ctaanggcgc taagttccaa acaanccggc 420  
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ngactggtng gacgttgggn gggaatttcc cgt 513

<210> 6914  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-113-Q1-E1-C5  
<400> 6914

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tgtgggagga gatgaggaag tcaaatacag ccctattcca caatcaagat ttcacgagc 180  
tctcagtaag tagcaataaa agtaagttaa aagaaggtct tgttcctttt cttgataatg 240



ctgctcagaa aaacattatc atagaattac aagatgtggtt ccaagagatt catgtttgat 300  
 acttcttcaa ttttgatgac tggttacgat ccaatgtcac tatccatcga aatgctggaa 360  
 gttgagttcg gtgaagctgc ggatattggc gaagaagcaa tctattatag acatttcaaa 420  
 ccggtgatct tgtggaggct tcaaaactgg attggg 456

<210> 6915  
 <211> 496  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-113-Q1-E1-C7  
 <400> 6915

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 tgaaagaggt ggagtagata ttgatgccag cacagatatt ctagcagatg aggctctgct 180  
 gaatgacgaa gcgaggcagc ctctgtcaag gaaagtttca attccttcat cacggatcaa 240  
 tccttacaga atggttatta tgctgcggct tgttatcctt tgtctcttct tgcattaccg 300  
 tataacaaac ccagtgccaa atgcctttgc tctatggctg gtctctgtga tatgtgagat 360  
 ctggtttgcc ttatcctgga ttttgatca gtttcccaag tggtttcttg tgaaccgtga 420  
 aacctacctc gacaggcttg ctttaagata tgatcgtnaa ngtgagccat cacagttaac 480  
 tgctgttgac attttc 496

<210> 6916  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-113-Q1-E1-C9  
 <400> 6916

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 gaattcctct gctgctccgt cgccttctct accggttgat gaaaacgaaa ctgtgactcg 180

cctctccacc attctccagt ccggcggcgt taacgacttc tgcttcaaga gagttgctac 240  
cgattactat gactggcctc tcgaatctcg tcgcgacggt ctggcgctt cctcagtcga 300  
ccatctctgc aagagtattg ttctgggttaa tactcaagct gcatcaaata ttttggattg 360  
cagtgatcca aacaactcaa aatactatgt ggttgtgggt caantatact gctagattca 420  
atgctgaagc anttgaagca atttcttaat cacnaaacga aggnaaagat tccaaagaaa 480  
agattt 486

<210> 6917  
<211> 509  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-D11

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nggatgatga 180  
tgaagatcaa acttaaggag acagaagcag acgtaagcca agacgacatt aaaagacaag 240  
aagcttaca catgtctcca cgcgtacnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnatgagcaa gtcacgagc gtgaggcaaa actgtttatg cgcaccaact acacaccctg 360  
gctccttcag gtgccgttac caacgtcgta acgctggact ccgggatgtc tcnttggcac 420  
atccccgtcc ctctaacctt tccaagttgg ctggtggaga ctccaaatct cccaagtgat 480  
gaatantana tattaagttg tttctcnc 509

<210> 6918  
<211> 492  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-D5

<400> 6918  
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acgacagcct ctctgcactt ggaatttgtg tacaangaga tcttaaacac tttcataagg 120  
cgagatacat gcttgctcaa ggtctgtaca gaaggggtgg gagcagtgat ctgcaaagag 180  
caaaggaaga actttccttt tgtttcaaat catcacggtc aagttttacg atcaatatgt 240  
gggagattga tggcatgggt aaaaaggga ggcgaaaaac tccaggtttg gctgggaaca 300  
agaaggctct tgaagttaac ctgccagaaa gttcacggaa attcataact tgcattcgca 360  
aatacttact gttcnatttg agacattgga cgaaactgaa natgtcaaca cactagaacg 420  
agcctttaan tctcttcgat cagataagan gttctctcta agcgttgaag accttgtagc 480  
aattgcaata gg 492

<210> 6919  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-D6  
<400> 6919

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tgtaatatg ttttcaaca caacagattc tacagaattg caaaatctga tcaaactgtt 180  
tcaaaaattgc caaactcanc ctctgcaaca ttttcctgca aaatcttcag ctgtantagt 240  
ttgtctanac caagaanana gagaagacaa aaacgagcta cgcgtaatct tanccaaacg 300  
atctactact ctctcttctc atcctgggga agtagcattg cctgnaggaa aanagacca 360  
anaagataaa gatgatatag ctactgcgtt gagagaagct cgtgaagaaa tcggttttaga 420  
tccttctctt gttacaatca tttctgttct tgaaccattt gttaacaaga aggggaatgtc 480  
ngtagcacca gttatcgg 498

<210> 6920  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-D8

<400> 6920

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tctcaattaa tcgaatccga tcgaaatcga gctcgatctg taatcctcga ggatcgaatc 180

gcaatccaac accgtgaaat ccaatctctt ctcaacgaca atcaacgatt agctgtagca 240

cacatcggac tcaaagacca gctcaatgta gctaagcgtg agctcgaacg gttacttgaa 300

accgctgtta aagttaaagc ggaaggagaa gctaaagtgc gtgaggttta tcagaatgcg 360

ttgagaatgg angcggaggc tcgtgtgatt gatggacttg gagctgagct tgggtcaggt 420

taggtctgat gtacagaggt taggtagtga tagacaggag tt 462

<210> 6921

<211> 505

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-113-Q1-E1-A6

<400> 6921

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gtctcttgga ttctgaacgt gggatctggg gatttgaata gttacacttt tttgtttatg 180

aaaaaacata cgatgaagtc tgggtgtgatc ataaccattg ctctgttatt atacacaagc 240

tttcttcttg tttgtctggc gaaagagtgt acagacattc ctacgaagct ctcacgcgat 300

actctccgca gcgagcttct gcaatcacag aacgcaaatt tgaantcaga ggagttctct 360

cattaccatt taactccaac tgatgactct gcttgggtcta ctttgttgcc aaggaagatg 420

ttganagaag agactgatga atttggcttg gactatgttg tataaaaaan tcaaggactc 480

ctaattcccc gggtaacttc tcaag 505

<210> 6922

<211> 508

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-112-Q1-E1-F5

<400> 6922

aactgttcgc ctggcctacc nagtccggaa ttccccgggtc gacccacgcg tccgcggacg 60  
cgtgggcatg gtttaaaacta tactcagcag cctataaggt ccgagttctc aagaagttta 120  
ttgcaagaac accagcaact cccaaatggt tacatgcatg ggaaccttgg gttgcagaca 180  
atgccgaatg gggcaaagtgt tttgggaggt gatgtagaat ctagtaggga taagttatca 240  
gcaaggggat ttactccaga acttcataat gttcctatga ggcttgagat gggagaatct 300  
ccggttaatt atgatttctt tgggtggtcaa caacaatcaa acacacagct ctctggcatg 360  
ctccagcctt tgccaaggca gcagatgaca ttcaatgata tgcaactact gaagcagcaa 420  
gttatggtta agcaaagca tgaatatcaa atgcaacaac aacttcaaaa gcaacagcta 480  
ganggccaag gcagctcaat tcnttgat 508

<210> 6923

<211> 470

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-112-Q1-E1-F7

<400> 6923

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tgctgtcaag ggtgtagctc gtttgacata tgagttctcc gatctcatat ctagtgctta 120  
caatttactt ctttcaacat ttcttctcct ccagaggaaa aataaagaaa ttacaaaagc 180  
aaatttaggt ttgttgaagg tgttggtggc taaatcaccg gttgaaggac tacacgcaaa 240  
tttaaagagc atgggttgaag gcttactaaa gtggccagaa ggaacaaaaa atctgttcaa 300  
agcaaagggtg aggtttctgt tggagatgct catcaagaaa tgtggcacgg aggctgtcaa 360  
gtctgtgatg cctgaggaac atatgaaact cctgacaaac atccgaaaga tcaaggaacg 420  
taaagagaaa aaatatgcag ctggctctga catcagtaaa tcgcaacant 470

<210> 6924

<211> 491

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-G2

<400> 6924

aantccgatac gacccacgcg tccggcacaa tgggtcaagg accttcgggc ggattgaatc 60  
ggcaaggaga tccgnaacca gatggtggag agaagaagga gaagaagttc gaaccagccg 120  
caccacctgc tcgtgtaggg aggaagcaac ngaagcagaa aggacctgaa gcggcggcga 180  
gattgccgac ggtgactcct tctactaaat gtaagcttcg attgctgaaa ttggagcgaa 240  
tcaaggacta tttgcttatg gaggaagagt tcgtagcgaa tcaggagaga ttgaaacctc 300  
aggaagagaa agctgaggaa gatagatcta aagttgatga tcttcgtggg acacctatga 360  
gtgttgccaa tcttgaagag cttattgatg agaatacgc cattgtttcn tctcgggttg 420  
ggccttgagt actacgttgg cattttgtcc ttcgttgata angatnaacc ttgaacctgg 480  
ctgctctatt t 491

<210> 6925  
<211> 520  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-G4

<400> 6925

ctggttaacc tgntccgtac ggcccggaaan tcccgaatcg acccaccggt ccgcaaaaaa 60  
tggcgatgta tgttatctac gangtcttct tccggctatg gtctcttcga ggttcacgga 120  
ctatatgaga tcggacataa cactgangcg gttcggactt ctgtctccga cctcagtcgc 180  
tttggccgtg ttgttcagct cacacggttt catccctttg agtctgctct cgatgctctc 240  
aaccaagtca acgccgtctc tgaangtggt atgactgatg agcttaaaag ttttcnggag 300  
ttgaatcttc ctaagggtcaa tgagggaaag aaaccaagt tcagtttacg attggctgag 360  
cctaaactcg gttcanatat atttgaagct actaaaatcc catgccagan caatgagttt 420  
gttcttgagc ttctcataag tgttcgccag cattttgata ngtttatcaa nggacttaaa 480  
gcctggtgat cttgaaaaat cctcagcttg ggttanctca 520

<210> 6926  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-112-Q1-E1-G5

<400> 6926

acgcgtccgg agttcaaaag catgtccaat catttgaaag agcttaagga caatgctgaa 60  
gcagaatgca atcgtgctcg tgaaaaggcc gactacaaag ccccgctaac tccacagcag 120  
gagtcgttga gaatcatttt catcaaagaa cagtatgaca ccaagctgca ggaacttcaa 180  
tatcaactga ccatgtccaa gaagcatggt gaggaattc tgatgaaatt acaagatgcc 240  
attgatgaga atgaagcaag gaaaaaggca gaatccagcc aattaaagag atctaaagag 300  
ctggagggaa aaatattgga actggaggct gatcgacaat ctgttatcta tgataaacgt 360  
gagaaaacca cggcttatga catgatgaag gcagagctgg attgctcatt attaagcctt 420  
gagtgtgca aagaagaaaa acaagaagct tgaagctatt ctgcaacaat gc 472

<210> 6927  
<211> 511  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-H1

<400> 6927

antggttccc tggcctaccg gcccggaatt cccngtgcga cccacgcgtc cgcgacaagg 60  
acgaggttcc aagagaactt agcttcttgt tctacgtacg acaccaaaaa ttaattcaaa 120  
aaagaaaaag aagagagttc aatgagaaaa cattctcttg atcgatggct tttaacagct 180  
gttcttgtcg ttctctctc gtcttcttcc tccttcgcgg cennnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnacct ctttgatcat cgatggcaaa 300  
agagagcttc tttattctgg ctctattcat taccgagaa gcactccgga aatgtggcca 360  
agtatcatca agagagccaa gcaaggcggc ttgaacacga ttcaagacat acgttttctg 420  
gaatgtacat gagcctcaac aaggaaagtt caacttttcg ggacgagctg atttggtgaa 480  
gttcataaag ttgattcaaa agaatggnat g 511

<210> 6928  
 <211> 496  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-H2  
  
 <400> 6928

aattcccgan tcgaccacg cgtccgaaaa aaactcaaga gacaaaaaaaa aaaggaaggc 60  
 gcgtcagtga tggagaagat tattgacgta gcttatggcg catcagtga ggtgggtttg 120  
 acgttggttg agatgaatct gttgccgat attgtcatta ngcggctcac acgtctgctt 180  
 ctggccggtc gtctccgttc cgtttacaaa cccacggcgg agatgcaact ctccgatctc 240  
 ctccgttttg ttgactctat aaagaagatg cctatagcta tccataccga naagccaaag 300  
 actcaacact atgaattacc gacagctttc ttcgaacttg tccttggaag aaacatgaag 360  
 tacagntctt gttacttctc aaacgattca agtagcttac aacatgcaga ggaagcaatt 420  
 ttggccctta ttgtgaaana actaaagttg gaagattggn aaaagtgttc cttgaaaatc 480  
 ggatnttgct ggggga 496

<210> 6929  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-H3  
  
 <400> 6929

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 ccggtctctt atgacctga cgtcgcggtt gtggcggggg ttgatttgaa tggcgcggt 120  
 atcgcagggc atttaccggc tgaacttggt ttgatgacag atgttgcgat gtttcatttg 180  
 aattcaaacc ggttctgttg tatcatacct aagagtttcg agaagttgag cctaattcac 240  
 gagtttgatg tcagcaacaa ccggtttgtc ggacctttcc cttctgttgt cctctcgttg 300  
 ccggtgttta agttcattga cgtcagatac aatgatttcg aaggtcaagt cctcctgag 360  
 cttttcaaaa aggatctcga cgccattttc ctgaacaaca acagattcac gtctaacatt 420



cctgattccc tcggagaatc atcancctcc gttgtgacct ttgctcaaaa aca 473

<210> 6930  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-H5  
  
<400> 6930

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gaaaccaatt gattatgaat ctgtgatttc tgaatgttca atggctctta aatctcagcc 120  
tggttttact cgtgctttgc ttagaagagc tagagctttt gaagctgttg gcaagtttga 180  
tttagctggt caggatgtta atgttttggt gggttctgat cctaatacata aggatgctgg 240  
tgagatttcg aagcgggttaa aaactgcttt gggtcctcac caagatttgc agagccgtcc 300  
ttcacctgca gctcttggtg cttcggctgc tttaggcggc cctattgctg gacttgggtcc 360  
ttgtttgcct tctcgtaatg ttcataaaaa gggagttact tcgcctgttg ggtctgtttc 420  
gttgccctaan tgctangtaa tggtaanggt tgagaaggcc acangtggtg a 471

<210> 6931  
<211> 485  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-H9  
  
<400> 6931

acttttaacgc cgnccggtaa cggtcacaaa attcccgggt cgacccacgc gtccgaatcc 60  
atccaattta gggttagggc tgcccctaata ctggaaacct ttgcctcgtt tctgatctgt 120  
tttccggatc cgacttgaag gaaagaagac gacgacgcac taccaaaaac atgggacgca 180  
attcgcttcc aacggatgca accctcgatc tagatgagca gatctcgcag ctcattgcagt 240  
gcaagcctct ctccgagcaa caggtcagag cattatgtga gaaagctaag gagatcttaa 300  
tggtatgaaag caacgttcag cctgttaaaa gccctgtgac aatctgcggc gatattcatg 360  
gacagttcca tgatcttgca naacttttcc gtattggggg aaagtgtcct gataccaact 420

atccgtttat gggagactat gtcgaacgtg gataatatcc gtgggaaact gttacncgtt 480  
gggtg 485

<210> 6932  
<211> 488  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-A3

<400> 6932

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gtccggaata aattcttctc cttttctttt ttgttgcaac tagtgaaaga gaaagagacg 120  
atcgcttann ttcttcttct cctacactct gcgtttttgc tctcttttta ctccgcattg 180  
ctcctccgtt antatcttcg ccggcgaaaa tttgttttct ttttccctgg aggtaaattc 240  
gaatcatgtc aaggcctgct ccgcttcnac ctcggtgccc gattccaaag aaactttctt 300  
tgagtccagt tgcanataca ttctactctt cntctcacc cattgaatca tacattggnc 360  
aatacaagtc atctactcaa gattccaggc tcgaagatta acctgcggtg cttgatgagt 420  
tgctctgtga naaaactgat nggttgetca ctanaggagn cctccgntcc cgctcagcta 480  
gcnatcag 488

<210> 6933  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-113-Q1-E1-A4

<400> 6933

ctgttaccct gccgtagccg tccgaaaatt cnnagggtcg acncaacnct ccgattcggg 60  
tctatcatca catccccaag gactacganc aagatggtcc ttgctggtcc atccaaatct 120  
gccgatacta ttttcaaata catagctcct gaacaagttc ccgttaanta cgggtggnctt 180  
ancaaagata ctcttttgac cgaagaaacc ataacggaag ccatcggtta accggcagca 240  
aactacacta ttgaattgcc tgcttctgag gcttgcacgc tttcatggga gcttaggggt 300

ttgggtgctg atgtgagcta cggagctcat tttgagccaa ccaccgaagg aagctatgct 360  
 gtgatcgtct ctaagacacg gaagattgga tcaaccgatn aaccggtgat aaccgattct 420  
 tttaatgtgg gtgaaccggg aaagantgtg atcacaatcg acaaccatac ttccaagaag 480  
 aagaaagtgc ctacangtca aaact 505

<210> 6934  
 <211> 408  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-D11  
 <400> 6934

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 tgagcttattc tcagaatgct ccgaaaagta agggatttaa aagagaggag ctcaagaaac 120  
 agtacgaaga tgttgaagat gaggaagaga ttgggtccga tgatgatctc actnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntcggaactg gttgaaatga 240  
 aaaagcttga gaatttgata ttcgggtcac tctactctcc tgttacgttt ggtaaggaag 300  
 aagaagaaga tggttcggct ttgtttcatg ttagaccgtt ctgctgtgaa gcagattcct 360  
 gactacgaag gatgatgggg atgaatgatg aaagancttt ctgatgaa 408

<210> 6935  
 <211> 493  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-D12  
 <400> 6935

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 tccactgctt atgttttcgt ttttcgttgg ttgcagcttg ttcaaactcc actgacgatc 180  
 aacagattca acaccatcac caccggaat gggttgggtcc ctcaggccac aaagtcatca 240  
 ccgtctcact taacggccac gctcagtttc gtcctgtcca agacgctgtg gattccatac 300

caaagaacaa ttncagagc atcacaatca agattgctcc cgggatttta caagagaaga 360  
aagttggtgg tttcagctac aaaacccgtt ncataacgtt caaaggganc tgggtangga 420  
tgttgaccgg ctatangagt gggcacgaac cgttcgtccc gaccttgggg gctaaaggtc 480  
aaacaattta cnt 493

<210> 6936  
<211> 493  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-D3  
<400> 6936

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tgtcaatctc tgcaatgtcg ttcattggtgt cagttggatt caacgcagct gccagtgtga 120  
gagttantaa cgaantangt gctggaaatc cangatcanc agcattttca accgcggtaa 180  
ctacaggagt gtcattttta ctgtcattgt ttgaagccat cgtgatcctc tctgtggcgac 240  
atgtcatcag ttacattttt acggatagtc cagcggttgc ggaanccgtc gccngctct 300  
ctcctttctt agccattacc atagttctca atggaagtgc aacctgtttt atctggtgtg 360  
gccgttgat gtggatggca agcatatgta gcttacgtta acattggatg ttactacatt 420  
gtggggaatc ngattggcta ncgttcttg gnttcacctn ngatangga gctaagggga 480  
atatggnacg gga 493

<210> 6937  
<211> 496  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-D5  
<400> 6937

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ttccaataat aaattttaca aatgctgtgt tcttgattgg cttttttaat cctcactgag 120  
atttgtgctt gaatcttgat tatcttggtg aagtatgttg tgttcaacca tatgagctct 180

gatggtgatt ctggtaacag gaaattcatg aactttgtga ttcattgcat caagaataga 240  
agactagaag ggggagggtta attagattat cttaagggtgt ataaaatgga aaaaaagagt 300  
gtaccaaatt ctgataagtt gtctctgatt agagtgttaa gaggtataat atgtctgatg 360  
gtgttagttt caacagcttt tatgatgttg atattctggg gggttcttan cagctgtagt 420  
gttgaggctt tcagcattcg ctatagcccg taaatgtggt tccctctcct ttgggctccg 480  
tggctcgcct tgtggc 496

<210> 6938  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-D6

<400> 6938  
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tccactgctt atgttttcgt ttttcgttgg ttgcagcttg ttcaaactcc actgacgatc 180  
aacagattca acaccatcac caccggaaat gggttggtcc ctcaggccac aaagtcatca 240  
ccgtctcact taacggncac gctcagtttc gtcggtcca agacgctgtg gattccatac 300  
caaagaacaa taacaagagc atcacaatca agattgctcc cggattttac agagagaaag 360  
tggtggttcc agctacaaaa ccgtacataa cgttcaaagg agctggtagg gatgtgaccg 420  
ctatagagtg gcacgaccgt gcgtccgacc ttggcgctaa cggtaacag ttacgtacct 480  
atcaaaccgc ttccgtcacc gtctac 506

<210> 6939  
<211> 429  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-D8

<400> 6939  
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tctctctatc tatctctcaa tctgtaagaa gaagattccc atttcagtaa aagccctaac 120  
 tttacttggg aaagttcttc atcnatcatc cttcaatcgt catcatccat ggctgatcaa 180  
 caaacccctag attcctctac tctcctcct agtcaatccg atgatctatc tcaactccac 240  
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 tccttaagtc nactcaacgc cggngctcct gagttcgttc ctggtcganc tantcctccg 360  
 ctgcctcanc ctccgangat gatnatcgcg cctccnccg ggtgganggt atgggtcata 420  
 ggtatnacc 429

<210> 6940  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-E10  
 <400> 6940

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 aatccgctga gatcaaaaaa tgttttcgat tttatcatca tcttcttctt cacaactcgt 120  
 caattcaact ctcaatttcc aaaattcgcg gaaatctccg atcaccgtta tgcgaagac 180  
 gtctaaattc aaaaccctga cggagaattt caccgtgaga gtgcttaaag cagagaatcg 240  
 cgaactgaac gtggctctgc tctcaccttt cactatcgtt tcttcacggc ttgattctgt 300  
 cagtaatgtt gcgattccgg attgagctca acgaatggat ttgttgggtt tgggganaaa 360  
 ctccgatttt tgccgntcgg taacggcgga ggatcagata atggctntgg taaaagcncg 420  
 ggaagcta 428

<210> 6941  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-E11  
 <400> 6941

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 acccttgtag aatccttatg cttatagcag ccagttgcct acctctcagc tgccaccaca 180  
 gcaaaacatc agtcgtgcaa ctgctcctca aactcctttg aacattaatc tacggccaac 240  
 aactgtgtct tctgcaactg ttcaatttcc ccctcgttcc caagcaagca accgctacaa 300  
 aagatgcaac aatcctcctt ctgagctagc tcaagctctt gtcgcagcaa aactcagagt 360  
 ctaacaaagc aacattccaa tegtctcaag caaggcaant ttctcaagct gcaagcaagc 420  
 aaggtgcaan tctaattgcan caaaccaaaa ccaaaaattt a 461

<210> 6942  
 <211> 516  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-E2  
  
 <400> 6942

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 tgttggaac gtctaagtca ttaattgtcc tcgatgacat atgggaaaaa gaagattggg 120  
 aactaatcaa gccaatattt ccaccgacca aagggttgga agtggttgctt acttctcgaa 180  
 atgagagtgt cgccatgcgt agaaatacat catatatcaa ctttaaacca agaatgccta 240  
 accactgaag acagttggac actttttcag aggatagcac ttcctatgaa agatgcagct 300  
 gaatttaaga ttgatgagga aaaggaagag ttgggtaagc taatgatcaa aactgtgga 360  
 gggttaccat tggccatcag agtggttagga ggtatgttag ctgaaaaata cacatcgcat 420  
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<210> 6943  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-E3  
  
 <400> 6943

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 aagctatgag ggggtcaagag tggcagatat atcagtgatg gccacagagt atagccccgt 180  
 gctgaaatgg cttagctaca gggcatctcc agatgcgttt ccgggaatgg gcgaagagac 240  
 agatgaggag gacagtgata tttctgaaga tgatgaaata caagactggg gacattcacc 300  
 atcttaagtg tcttatatgt taggtcagat agaactggta tgatagttaa caacttaaca 360  
 tcaagggaag gaacactaat tgttctgctt acttataaat agaaaatgga gagtcacttc 420  
 tctatctaac aaaaaaaaaa aaaaagggcg gccgctnct 459

<210> 6944  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-112-Q1-E1-E6  
  
 <400> 6944

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 tcccgagata ccgtagagat gagatttcat ccggggcacg aagctaataa tgtgaaggaa 120  
 gtatcagcca caagttggac tggcaagaga aatccaagaa ttgttattga tcttgaagaa 180  
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 tatgttactg tgagaaatcc tgacacaaaa ccgtcgttct ttgatcggat cagctcaaac 300  
 attctgatgg atgtagacca atcactcgtt gaggatgata gtgataagac aactagtaag 360  
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 <223> Clone ID: LIB24-112-Q1-E1-E9  
  
 <400> 6945



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cacttcttcc atgtactctg cggggaaaga gtatatggaa acagaatgga ctaatgagaa 180  
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cggagctctc gggaagaacg agaatgtatc cgaatcaacg aggttcggta gcggtagaaa 300  
accgtctcaa gaacagttca aggttcttca tgatgggttc ctggcaanaa gataatgtga 360  
aacaacctgg aacatcggat taacgggaag ggacgggtgg taaattccaa tgagtttcct 420  
aagg 424

<210> 6946  
<211> 504  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-F1  
<400> 6946

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tttcagttga gagggatgat gttgatatgt gtacaatcat gccgtggatc caagacgctg 180  
ttaatcgtag aatccaacat cttgaagtcg actgtcgctt cagttttcat tttgaggcag 240  
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tgcacgttta cgagtttgta tctttgccaa atctcaaggt gatgcatcta gaagagaata 360  
tatattattg tcttgagact ctggagaact tcattctatc atgcccggtt cttgaagatt 420  
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tcacttaaca gtccctcaaac tcgn 504

<210> 6947  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-112-Q1-E1-D10

<400> 6947

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ttctgggttg tctgagaacc ttatcaagga atgcattgag aatggagtga ggaagttcaa 120

cgtgaacaca gaagtaagaa cggcttacat ggaagctctt agctctggga agaagaccga 180

cattgttgat gtcattgtccg caacaaaagc agccatgaaa gctgtgatcg cagataagat 240

ccgtctcttt ggctctgccg gaaaagcttg agttgttgat aaaaaaatgt ccgatnaatt 300

agttaagtac aattgtacat cacatccaaa ggaataaaag aaacaacana tattacatca 360

catccaaaga agatgaatgc aattgtatgc caatgcagat gcaatngttg ttgggaatta 420

angaaatcan ttttagtacn ggtttaaccn gttttttttt c 461

<210> 6948

<211> 455

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-110-Q1-E1-H9

<400> 6948

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aacaagtagc gagtgtgatt cccgttacga ggaagctggt gaagactatg gccgcgaaag 180

ccattatctc tgctctcacg ccatccgggt gtggccggca ctctgactct accggcgacg 240

gcaaaggtaa cggagggcgc gtgtaccccg gtactcatcg ttgatcggcc attttcttg 300

gattgaagat atatatgccg tcatgatcgt ttatgggttt tctttttatg tttttttttt 360

atatatctaa atgttggtgt tctcgttgat aattataagc ttttgataat taatgcttct 420

cctctttcnt tcttctctaaa agatttaaatt gtttt 455

<210> 6949

<211> 462

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-111-Q1-E1-A1

<400> 6949

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gggaagagcc ctagctctcg agctggccaa gaggggtcac actgtgatan gatgcgctcg 180  
tagtcaagag aagctcaccg ctcttcaatc ggagctttcc tcttcgacca atcatctcct 240  
cctcaccgct gatgtgaaat caaacagcag tgtcgaagaa atggcacaca caattgtgga 300  
gaagaagggt gtcccagata tcatagttaa caatgctggt accatcaata agaacagcaa 360  
gatttgggaa gtctctgctg aagattttga caatgtcatg gatacaaacg ttaaaggagt 420  
tgcaaattgtg ctgcgccatt ttancccttt gatgtccca cg 462

<210> 6950

<211> 472

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-111-Q1-E1-A11

<400> 6950

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gccgaccgca atcaagaaac ccatggcccc cggagaagaa gaccctttta aggtctcctc 180  
gccgtctcat ttggtctctt gttcatcgcc ttttacgtcg ctctcatcgc cacacacgac 240  
ggatctagat ccaacgacga agggatcgat gaaacagaga cgataacgtc acgtgcacgt 300  
cttgctggtg tgtcggagaa acgtaacgat gggttatgga aactttccgg tgatcggaac 360  
acgccggcgt ttgaatggaa caatagtatg ttgtcgtggc aacgaacggc gtttcatttt 420  
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<210> 6951

<211> 498

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-111-Q1-E1-A12

<400> 6951

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atccaactga tgatgggttg attactatac ttcccttctt agagactttg gctgttgctg 180

atgatgttcg gcctatcatt ggcaggagat ttggtacaa ggaataagag tttccttctc 240

tttttttcta tatacatcga gtgcagatcc tgatttctct cctttggatt ttagttacaa 300

attggccctt aattagttcc tcatatctct ttttaggtcg ttaattaggt aaccaaagaa 360

taagctcggt gagtctagtg agaataagtt tccttgcttg ctcccttttt ttaataagaa 420

gacctagttg tgggcttaaa tcttatgact ttgctgggtt cttctctgcc aagatagatc 480

ctagaaaatc ttgcagtt 498

<210> 6952

<211> 505

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-111-Q1-E1-A2

<400> 6952

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cattacattt tcttccgac catacagaga gatcagtttc tgagagagaa gaanatgtct 120

atanaggaag aaaacgttcc aacgactgtt gactcaggag ctgccgatac aacggtgaan 180

tctccgnga agaaaccggn ggcgaaaggt ggtaaatac acaagacgac gacggctaaa 240

gcaaccaana agcctgtgaa agctgctgct ccaacgaana agacaacaac ttcctctcac 300

cctacctatg angagatgat taaagatgct attgtaacgt tgaaggagag aactggntct 360

agtcaatacg cgattcataa attcatagan gagaaacata natcactgcc tctactttt 420

angaagcttt tgcttgtgaa tctcaagaga cttgttgctt ctganaaatt ggttaaagtc 480

aaagcttcct ttaagattcc ttctg 505

<210> 6953

<211> 475

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-111-Q1-E1-A3

<400> 6953

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aagaaggctct ctattcagca tttaatggna ttggctactt gtatgtcaaa ggctatggag 180  
tagnataaga nnnctatac taaggcaaga gaatattttg agaacgctgt tgacaatgaa 240  
gaccccgatg ggcattataa ccttgagatt ttgtatctta aaggcatcng agtcaacagg 300  
gatgtgaggc angcaacaaa atacttcttt gttgctgcaa atgctgggtca accaaaggct 360  
ttctatcaac tcgccaagat gttccatact ggtgttgggc ttaagaagaa tctggagatg 420  
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<210> 6954  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-111-Q1-E1-A4

<400> 6954

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ccgagttccg ccgcgacgac gacgggttct aatgggttcg gctctcgttt ccgccgatgc 180  
ggctgcgatt gatggaacat cgcattcttc ggaatctgct ggtgggtggcg ggggcggagg 240  
aagtggaaat agtggttttg atgaggcgag tcttcggtat aagaactcag tgacttcgct 300  
tcgtgctgtt cttgctgcga ttccaaattc gcagaaggca aaagcatctg aaatgcaaaa 360  
tggtttagga tccctgaaag tgaagacgag atcgaaaaat tggaggagca agccttaagt 420  
ctcaaaatgg agattgcaaa gaagaatgtt catgttaaa 459

<210> 6955  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-111-Q1-E1-B1

<400> 6955

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taatccgtct ttgtggtcta cttcagctac cccgagttcc gccgcgacga cgacgggttc 180  
taatggttcg gctctcgttt ccgccgatgc ggctgcgatt gatggaacat cgcattcattc 240  
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gcagaaggca aaagcatctg aaatgcaaaa tggtttagga tctcctgaaa gtgaagacga 420  
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<210> 6956  
<211> 501  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-111-Q1-E1-B11

<400> 6956

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aggcctccac caaaaccaac tcaacatctc cgctccatc tccgcctcca tctccgcgc 180  
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aatggaagta ccctaaatcc aagttatttc ccagacacgc ggcgtggagt tgtcattcgg 480  
gcggaggtgg aggtggaggc n 501

<210> 6957  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-111-Q1-E1-B12  
  
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 caaaatatca tctcagagac tccgattctc tctgtttctc ctccactttt caacccaagt 180  
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 caattgcaaa ggtattcacc atgtgcttct tgggtcttct catggcctcc aagtacgtta 360  
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<210> 6958  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-111-Q1-E1-B2  
  
 <400> 6958  
  
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<210> 6959  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 cagcgaagtc atgtcgttga ggaagatact caaacttgag gaaatctctc cattccaaaa 420  
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<210> 6960  
 <211> 457  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 6960  
  
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 ctctccgtca cttctccggt caagcccgt gagaaccan gtcttgttct tgcaaagctc 180  
 aagcgttggg aacgaaaaga atgcacacca aacagtcttc cgattctcca canaatgcat 240  
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<210> 6961  
 <211> 533  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-H4

<400> 6961

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gcggtttctc aagcgggagg gagaatccat ttactccaaa aagcatctct aagttcggtta 240
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<210> 6962  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-F3

<400> 6962

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atatcattgc tcttggtctt gattctatcg aagctcgcaa atacatcaat ggggtagctt 420
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<210> 6963  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 6963

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catcatatth agtcctgttc tcgtaccagc tacgatagcc acggttgtct tggcgacagg 420  
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aaacgtan 488

<210> 6964  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 6964

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aagatcttgt gttcagatc ctcgccaaga aggtcctcca ccgtccaatg gacttcgatc 180  
tccctgagct ccgttcttgc aatgttgatc catgggactt gctaggagag aagaacaagg 240  
aagtgtatta cttcgtgaag aaggaagagc gagagaggaa gggaagagag acgttatccg 300

gttattggga agagtgtgaa gaagaggaag taatggagggc tggtaggtcgt gattgtattc 360  
 atttagaagg aaggagaaaag acatttgctt tctttattgg aaaaaaacct cgagggacaa 420  
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<210> 6965  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-110-Q1-E1-F8  
 <400> 6965

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 cgtgtggaac gtgacgtacg gaaccgcac tcctctcggc gttccacaac aagtcatect 240  
 catcaacggt caattccctg gtcctaacat caactcgact tctaacaaca acgtcatect 300  
 taatgtcttc aacaacctcg acgagccttt cctcatcacc tgggccggga atccagcaca 360  
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<210> 6966  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 tgtttggtgg taacaaccgt gctcaggttt tcttcaagca acatggatgg actgatgggtg 240  
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aagaagttgc gaaagcgatt gcggaagaaa ctaattctgg tcttctgtca tctcccgttg 360  
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<210> 6967  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-G2

<400> 6967

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aaagtctcgg agctgaagga aggagggatt ctgaaacctc caaagaaacg gtaaccact 180  
ctactaattt ctgtcatcac tttttggcga gggtcagcca gctcagtga ggaagttaag 240  
gggtttgaat aattggatg ctcatgcaat tctttttggg aattgcatac ctgaaattta 300  
gttgcagttg tttttttgac naagtctcaa gcaggaaagg agatggtttc aggagctgca 360  
ctcttttaggg ttatgttgaa tggagtcttc aacctgttta gaagctccat ttttaatacc 420  
tttatgcttt aaactgttag ctctgtttcc aatggatgtt tccacaagtt gtaacttttg 480  
caa 483

<210> 6968  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-G5

<400> 6968

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gagaccaatt cttgtcgcag cttccgttgg tagctatgga gcttatctcg ctgacggctc 180  
cgaatacagt gggatatatg gagattctgt gagtaaggag acattaaagg atttccatag 240

aagaagagtt caaatcttag caaaatctgg agccgaccta atagcattcg agactattcc 300  
aaataagctc gaagcagagg cttatgcgga tcttcttgag gaggaagata tcgatattcc 360  
ggcatgggtc tcgttcactt ccaaggacgg gagtcagtgt gccacgaaga gantcagttg 420  
tagaat 426

<210> 6969  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-110-Q1-E1-G7  
<400> 6969

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gtttctggag ctaagttcga tgagctttat cggcacaagct gggctatgga tcattgtgtc 180  
aacgaaggcg aagtcacaaa actcaagctt gacaattact ctggagctgg gtttgaatca 240  
agaagcaaat acttgtttgg taaagtctct atccagatta agcttggtga gggatgattca 300  
gcaggaacag tcaactgcttt ctacatgtct tcagatggtc cgaaccacaa cgaattcgat 360  
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aacg 424

<210> 6970  
<211> 454  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-G9  
<400> 6970

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aatgagtatg cctgttctag taccgatata cactttactc gtgccaatcc ccctaaaggt 180  
ttcatttttg gtaccgcaac tgctgctttt caggttgaag gagctgtaaa tgaaggatgt 240  
agaggtccaa gcatgtggga cgtatacacc aagaaattcc cacataaatg taattatcac 300

aatgccgacg ttgctgtcga tttctacat cgttacaagg aagatatcaa gttgatgaaa 360  
aatctgaaca ctgatggctt tagattttcc attgcatggc ccagaatatt ccccatggt 420  
aagatggaga aagggaatan gcaaagcaag tggt 454

<210> 6971  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-H1  
<400> 6971

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tgcccattct ttgtcgtcgt ttttcgattt tccttgattc gccggagaaa tagcgtttcc 180  
ggcaatgaaa acctctctcc gacggttacg aggtgtgctt cacaagcatg aatctaaaga 240  
ccggagagat cttcgagctc tggttcagaa agatgagctt gcccaagctt ctcaggacgt 300  
agaagacatg agagattgct atgatagctt gctcaatgcc gctgctgcta ctgccaatag 360  
tgcttaagaa attttccgaa tctttgcaa aactaagtgc ntgtctc 407

<210> 6972  
<211> 494  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-H11  
<400> 6972

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gcatcttcaa gctaagtatg ttggtacagg tcatgcagat ttgagcagat ttgaatggac 180  
tgtgaacatt cagcgtgata gttangett cactaccga tgctttctta 240  
ctttgcaata gctgagaacg aatctattgg gcgagaacgt tacaacttca tgcagaaaat 300  
gctcttacct tgcggccttc ctccagaaag agaagacgag taagagcttg tgtgcatttg 360

aaattaaataa aaacattcta cttcttagaa gcttgtgtgc aatcttcttt aactgctcca 420  
ccaatgtaat tgccgaaaag gcttcttcct gtttctagtt cataatgcan ttgttgatca 480  
tgatctaaac antt 494

<210> 6973  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-H12  
<400> 6973

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ncntcaaca atttaaccgg tccaatccct gattctccgg ttttcttaaa ccaggaatca 120  
aatttctttt caggaaaccc ggggtctatgc ggtgaaccga cccgaaaccc gtgtcttatac 180  
ccttctctgc cgtctatcgt ctccgaagcc gacgtaccga cgtctacacc agcaatcgcc 240  
gcaataccga acacaatcgg ttcaaaccgg gttaccgatc caaattcaca acaaaccgac 300  
ccaaatcccc gaaccggggtt acgaccggga gttataatag ggatcgtagt cggagatatc 360  
gctggaatcg ggatcctcgc cgtgattttc ctnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nacagacaca attacgttat 480  
caacatttca tcctc 495

<210> 6974  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-H2  
<400> 6974

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tcctagtgga gcaggctcgc gaaagcctct tgtggaatct gctccaatcc gacaagaaga 180  
taaccgcaa attcgacgcc ctccgcctcc accgcagcag cagagagtag aacctcagca 240

gaagcgggct ccaacggtca aagatggaac tectaagccg caattnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnctatgcg tatatttgct 420  
 ggagattcag ctgatggaga gaaatttgct gagaaaatng ganctgaaat tgattgaaaa 480  
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<210> 6975  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-F2

<400> 6975

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 ctactttatt ttgggtaatg ttcangcgaa aaagtcgttc tattttctct aggcgccatc 180  
 naagtcgacg tgttactcct aagagacgtt ctccaacccc aaaacggtac aaaagacaaa 240  
 agagtaggag ttcaactcca tctcctgcaa aaagatntcc cgccgcaacc cttgagtcag 300  
 ccaaaaatag gaatggagaa aaacttaaaa gagaagagga agaacgaaaa aagcgacagc 360  
 gtnaagcaga actgaagcta atanaggaag aaactgtgaa acggggttgaa gaagctattc 420  
 gaaagaaagg tcgaanaaaa gcttacagtc tgagaaaatc aaaatgggaa antccaaccc 480  
 cggttgagg 490

<210> 6976  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-C7

<400> 6976

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 aacacgcgtc cgccacgcg tccggcagaa tcaaggagtt catattcaag agactcttct 120



gctaactcca ggggtagaga agatagggcgt tttgttgcca aagagttaga tacatttcag 180  
ggacgtgata aagcttatga tgaggtttat aatcctcgaa ggttcactga taatgagaaa 240  
ggactcagag gaggatcaca ttcaaaaggc tctgatacta actctcgggg ttgggggtgat 300  
aggcgttctg ttgtatatac aagagatatg gatgattgga gagagaggaa taaaaccaag 360  
gatactaggg agactggctt ttttaagccg gaaaactttt gcagaaattg gatgtagtga 420  
agatatgatg aaggccttaa aggaacanaa ttttgatccc cggcacatat tcaggctagg 480  
gcttttttc 488

<210> 6977  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-D10  
<400> 6977

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attggatttt gcgagtagct taaagaaggc ttcagcatta cagtcgatca ggttggatgg 180  
ttgttctggt acgcctgatg gtttgaaggc gataggcaca ttgtgcaatt ccctgaaaga 240  
ggttagccta agcaaatgcg tgagcgtaac tgatgaaggc ctttcttctc tagtaatgaa 300  
actgaaagac ctcagaaaac ttgacatcac atgttgccgg aaactaagta gagtttcaat 360  
cacccaaatc gccaatcgt gtcctttact aagtctcttt gaagatggag tcttgttctc 420  
ttgtttccag agaagccttt tgggtgatcg gacaaaagtg tcgggctact tgaagaactt 480  
gacttaactg acaacgaa 498

<210> 6978  
<211> 429  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-110-Q1-E1-D5  
<400> 6978

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 atggaggtct actgggtgtc gcatattcca agcatattgt gcatatatat tcatatcatg 180  
 gtggcgagga ttacggaat catctagaga ttgatgccca tgctggtaat gtcaacgatc 240  
 ttgctttctc ccaaccaaac cagcaattat gtgtgtgac ttgtggagaa gacaagacaa 300  
 tcaaggtctg ggatgctggt accggaaata aattgcacac ttttgaaggt catgaggcac 360  
 ctgtttattc cgtgtgcccc caccaagaaa gagaatattc aagttcataa tcccaactgc 420  
 ctgttgaat 429

<210> 6979  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-110-Q1-E1-D6  
 <400> 6979

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 tgaatgtctg cgaaagtga tttccctgca aacattctta tgttgataa gctactgact 180  
 cgctttgttc atgtgatgac aaacttcttt aactaatact atgcatgtcc tcatggtttc 240  
 tgttgctgct gctaattttc tttctttctt tattctagtc ctggctagtt tatattgac 300  
 taccgggtta atattgcttt gctcatgtga ctgtgttctc atgacatttt ttcgtacctt 360  
 aagttgttgt tagatagtc cattcaaaaa tgaatttgat aagatatgtc tccttctatg 420  
 ca 422

<210> 6980  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-D7  
 <400> 6980

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cagaatggga ggctgaaaat acgtccttgg ctacaggatca agaacaacta ttcgaatctg 120  
 gtgaagagac atgtttcccc gccatacgtg ttggattgca gaagacttcg tctgtgtcat 180  
 tctggatcga caaccaaact ggtcataagc cgttggaaga ttttgttcta gtggaaagta 240  
 gcaccactcc tctttatgac cgtaaatttg ctataggttt aaattcagca gatgggtcaa 300  
 gaaacgtgga agggggattg gagattattg atgatgatcc tccacgttgc ttcaattgtg 360  
 gtggctataa gtcattctct aaagagaatg tccaagggcc tttggatcga tnagcggta 420  
 aaaagtgcc 429

<210> 6981  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-D9  
 <400> 6981

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
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 catctccggc caccgggggtt gattcagaac cgaccatta atcctccgcc tcagcagaat 300  
 cctacccta accctaattt gggannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnatt 420  
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 t 481

<210> 6982  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-E1  
 <400> 6982

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ggagtactcg ccggaactcc gatcaaatcc ggtgaaatga cagattcatc gttgttatca 180  
atttcaccac catcggcgag aatgatgaca cctaaagcaa tgaatcgaaa ctacaaggct 240  
cacggaacag atccatcacc gccgatgagt ccaattttag gtgcgacacg tgcggatctg 300  
tcggtggcgt gtaaagcttt cgcggtggag aatggaatcg ggaccattga agaacagaga 360  
acgtatagag aangagggat tgggtggaaag aaaagaaagg aggangangt gttcccgtgt 420  
ttgtgaagat gcc 433

<210> 6983  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-E12  
<400> 6983

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gnaaaagaaa atgagtggaa gcagaaggaa ggcgacgccg gcgagtagga cgcgagtagg 180  
gaattacgag atgggacgaa ctctcggaga aggaagcttc gctaagggtga aatacgccaa 240  
gaacaccgtc accggagatc aagccgctat caaaatcctc gaccgagaaa aggtcttccg 300  
tcacaaaatg gtcgaacagc ttaaaagaga aatatctaca atgaaactga ttaaacaatcc 360  
aaatgtggtt gaaatcattg aggttatggc gagcaaaacg aagatctata tcgttcttga 420  
gcttgtcaat ggaggtgaac tctttggtaa aatcnccgca acaaagggaa gcttttagng 480

<210> 6984  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-110-Q1-E1-E3  
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 atgtctatag cttcgggggtt gtccttcttg agctgttgc tggtcgtcga agcagtggtg 360  
 aagaaccgc ccatctggag agaggaacct tgtggagtg gctaaacat acctcgtaaa 420  
 caaaaagaaa gatattccga atcantgata atccgtcctc aaggaccaat tactccaa 478

<210> 6985  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-E4  
  
 <400> 6985

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 gagcagcgat cgaacagtta actaattttg atcgaatgca tgattggctc gttgagtatc 180  
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 atcccatcaa cgttgaatat gtctgaaaa caaacttctc caattacccc aaggagaga 300  
 cttatcattc ttatatggaa gtattgttgg gagatgggat tttcaattct gatggagaac 360  
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 tttagta 427

<210> 6986  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-E5  
  
 <400> 6986

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 ccctgggatt tagcagtgtt ttcgagattg aagacaaggg accaagaatg gtacttctac 360  
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 aggtactg 428

<210> 6987  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-E8  
 <400> 6987

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 tctgattggt tttccactt tgcactctgtt ttgaggatgc cagctacgga ttttcaagga 180  
 tcatttgga ggctggtgct aagtttacgg cgagaccaag ttgactcacc aacagtcgtc 240  
 tccggaagta gtagccacca cgagccaagc accatggagg ttgagctaga ttcgtttcaa 300  
 agacaagtcg ctgagaaatt catcgatctc aacgcttctt caaacgacct tctctctctc 360  
 gaatggatcg gaaagcttct tgattcttct ctctgttgtc aagaagagtt tcgagctatc 420  
 gtattcaacc aaccgatctc aagatttcta aatctccgaa tgggaccggt tgaattca 478

<210> 6988  
 <211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-110-Q1-E1-E9  
 <400> 6988

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 aggacaagac cattgttggtc acggtgaacg gagagattta taaccatgag gagctgagaa 180  
 aacgtctgaa gaatcacaag ttccgtactg gtagtgattg tgaagtcatt gctcacttgt 240  
 acgaggagta tgggtgtggat tttgttgata tggtggatgg aatattctcc tttgtgttgc 300  
 tcgacacacg agataactct ttcattggtg ctcgtgatgc gattggtgtc acttcgctct 360  
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<210> 6989  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-F10  
 <400> 6989

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 ctcaaacgcg cgaaagcgga tccagtgtag acagaatcaa ggcggaatcg ctattccgtc 240  
 ggatgcgagc tgctcctgtg cgggtgcgtg ttcacgacgt gattatcggg ggaaacgaag 300  
 aagactaagg accatatcat tgaagcggaa gtggatgctg tgagagaggc gaccacgttg 360  
 ccaattcgaa tctccgtgcg ttagatatct ttgattccgt caacattacg cttgantctg 420  
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<210> 6990  
 <211> 481  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-110-Q1-E1-C5  
 <400> 6990

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 ccctctttat ctcgccgtg ttagtgagct cagtctccgc ggctacaatg gagtctccag 180  
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 ttgctgcatc actctccgcc ttcttggtc ttctcttgca gtagaaagac aagagtcttc 300  
 aaaatatgag aaggagatat ataacaaaac tctttttttg ttctgatttt gtcccttaga 360  
 atctatgatg acaaataacc ctttttgatg tataatctca ttgtgtaagt tattacacta 420  
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 attagcctcg gctaaagtaa cttcagcaat gatgggtcgt ctctcgaata atcgggtcaa 180  
 gcctaaagaa ntctcggcca tganagactg cgtcnaggag ttaggtgaca cgttggagga 240  
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 tnnccgatan agagacttgg gtcagtgcgg ctttgacana tgtgaacaca tgtactgacg 360  
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 tgttggttgt ctcttggtgt gaagctgttt ctggagctaa gtccgatgag ctttatcggt 180  
 caagctgggc tatggatcat tgtgtcaacg aaggcgaagt cacaaanctc aagcttgaca 240  
 attacnngg agctgggttt gaatcacaga accaaatact tgtttggtaa agtctctatc 300  
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 agatgaaatt caatttacgc aggaattttc cacttctgac gacaaagaga gttttctgga 180  
 gaggtgttgt tgaggaactt ctatggttca taagcggttc aaccaatgca aaggtacttc 240  
 aagaaaaggg tatccgtata tgggatggga atgcgtcgag agcatatctt gatngtattg 300  
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<210> 6994  
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 <212> DNA  
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ctcaaagcta tctgttacaa gcctggctct ctccagttac tcgatcagag gaagcttct 180  
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 atggttgtac gtgggtgctcc tgctatagct attgctgctg ctctttcttt ggctgttgaa 300  
 gttttcanct ttcattggttt tgatggatna gcttcagatg ctgttgcttt tcntgagaac 360  
 aagttggatt atttagtgtc aagccgtcca acagcagtta atcttgcaga tgctgctttg 420  
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 <211> 424  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 gagttcatgt tgctcctaag atagctgcag aggagactga tgaggaattt gaagtcaaag 180  
 aatgcacaga ggagaagtct ctttctgaga atgcacaaaa tgttgatct gctgagagag 240  
 ttggagctca naaatcacct aaaacccgta atggaaatgc taaagtttca nngcagcagg 300  
 atgctcctcn tctcgcggtg aggaagccat tgcaaccgca naacaagaan catattgang 360  
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 ctgg 424

<210> 6996  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntctctct accatcctgg tctccttgcc 180  
 ccgccacaga tagaaccaat cccaagtgga aatctcccc ctgggtttga tccaagtact 240  
 tgccgcagtg tgtacgttgg aaacatccat attcaggtga cggaacctct gcttcaagag 300  
 gtttttgctg gcactgggtcc tgtagaaagc tgtaaactaa ttaggaaaga aaagtcttct 360  
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 atggg 425

<210> 6997  
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 <212> DNA  
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<223> unsure at all n locations  
 <223> Clone ID: LIB24-108-Q1-E1-H10

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 tcgcagaaaa atgcgcaccc agagcttggg gagtgggtaca attcgctcgc agatctgtac 180  
 cagaagaagc tctggcatca gctcactctt aagctcgagc agttcatcgc tctctctgtc 240  
 tttcaggctg gagatgcttt aatacagctt tacaacaatt tcatcacnga ctttganacg 300  
 aggatcaatc ttctgaagct tgcgcatttc gctgtttag tagtccccgaca gtatcctgaa 360  
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<210> 6998  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-108-Q1-E1-H11

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tat t t t t t a g g a a g a c a a a a g a t g t t a a c a a g a a g a g a c c a c t t g a c t c a a g g a c t t g t c c t 180  
t a t t t t t c a c c a a c t c a c a g c t t t a t a c a g c c a a c c a c c a a c a g g g a c c a c c g c c a c c a c c 240  
g c c a c c a c g g c c a c g t c a g c c a g a g a t c t a g a c a c c c g a c c c g a g g a a a a c c g g g t t g g a 300  
t c c c a a g a t c c t g a t a t t t c t g t a c c c a t g c a t g t a g a t g g a g a t g g t g c t g g c g a t a a a 360  
a g c a a t g t t c a g t t t t c a g g t t t c g a t c t t g a g t t c t a a n a a n t o c c n t c n a t a t a t n t a 420  
t t a g c a g t t a t a n t c c t c n t t t t c t g c t t t t t g c t a a a a n c t c a 464

<210> 6999  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-108-Q1-E1-H4

<400> 6999

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t a g c t c t t c t a c g c a a a a t c g a g t g c a t c g a c a a t g g c g g a a c g t g g t g t c g a a c g t g g t 120  
g g a g a t c g c g g c g a t t t c g g a c g t g g a t t c g g t g g t c n c g g c g g t g g a a g a g g t g g t c c g 180  
a g a g g t c g t g t c g c c g t g c a g g t c g t g c t c c a g a g g a g g a g a a a t g g g t g c c a g t g a c t 240  
a a g c t t g g t c g t c t c g t a a a g g a a n g t a a g a t c a c a a a g a t t g a g c a g a t c t a c c t c c a t 300  
t c t c t c c c a g t c a a g g a g t a c c a g a t c a t a g a t t t a c t c g t c g g t c c t t c a t t g a a a g a c 360  
n a a g t g a t g a a a t c a t g c c g g t t c a a a a a c a a c c a g a g c c g g t c a g a g a a c g a g a t t c 420  
a a a g n c t t c a t c n g t c c g t c c g g a n a t a g t a a c g g g t c a c g t t n g g a t t a a g g a g t c a a 480  
a a t g c 485

<210> 7000  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-108-Q1-E1-H7

<400> 7000

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gcatgttgaa gatgataagg aattcaagga gaaacctttg gttcaggttc ggagcgacga 120  
cgacagtgaa gtgaaggaag ccaaagacgg aggaggtgaa gaagttaccg gcggcnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnggaca gagtacctag tgaggccggt tggtagggtt gaagatgagg atgatgcaag 360  
tgattttgac cctgaggaga atggcttgga tgaaagaaga agtgatgaag agattgaaag 420  
aagatgatgt tgatgag 437

<210> 7001  
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<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tcttcattgt catgccttag caacagagat ttatcgtctc cttataattg ctgttggcga 180  
ctatccagag gcaaaatttt gacttctctc agtaactcac ggaaatttgc tgtgggaaag 240  
gaagcagaag atgggtttct atcgaatgtg agcgaagata ctgatgagat gttcgacgac 300  
ttgttcaaca natatgggaa ggttgttttt anaagcactg atgttaagtc tccaacagct 360  
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gtgat 425

<210> 7002  
<211> 518  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-109-Q1-E1-A8  
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 atctgcttgt gaagaacacc caaaactaaa atcctttgat gcttcccttc agcagcgaac 240  
 caacaaaatg atagactcac tcaccgttga agacaagaat ggttcgtcct cccacacga 300  
 cgcacacatg gagctctcca agcacctagt tgaagttacc caangtgtgg caagacttca 360  
 ttaccgaaat ccaanacgat gtgtggggac aaccaagctc taaagtattg gtcttgggct 420  
 attttgaaaa tactaaaaag actttagaga ttttcaaac tatagagaaa ctgcgtccna 480  
 gaacgcagaa aatggggcca aacttttcat tccangaa 518

<210> 7003  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 7003

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
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 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-109-Q1-E1-B12  
  
 <400> 7004

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<210> 7005  
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 <212> DNA  
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 <223> unsure at all n locations  
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 tgttaagaaa tcacagaaag tatacatgga agcttacact tctcttttgt cctttggtct 180  
 ctctgctgat ggactttcca atcttgaaaa gttctatggg aaaccaatta tacttgctga 240  
 tagaggaaat ggtggaagaa aangcnggtg atatnantga tgaagccatt gataatgatg 300  
 tcgcctttct cgntgttggg gatcctttcg ggagctanaa cgcatangtg atcttggtgt 360  
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 tgaat 425

<210> 7006  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-G3  
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 aaccgcaccg tgggcgctctt cgtcttcttc atcctcgaca ttgttgattt ccngctttgc 180  
 tttacctata agactcttga tttcttcttc gagtccgagt ggnaaccctg ctactgctgt 240  
 ccgcccggcg aggccaance aatctcggct gganggaaca caggcggtaa gatgatagt 300  
 tctgcaanga tcaggagact actctaaggt ggtctcactc acaaggacaa agatctanct 360  
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<210> 7007  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-G7  
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 cttcagactt tagtactgcg acaggacaaa ccgcagcttg aggacaacgc ggtggaagcc 360  
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<210> 7008  
 <211> 391  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-H12  
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 tatgttgaag tagtcccaca aatggagaaa gagagacgtt tggagcaaat ccttaggtca 180  
 caagaacgag gttcaaaagt tataatattt tgctccacga agaggctttg tgaccatctt 240  
 gcacgtagtg tcggacgtca ttttggcgct gttgtgatcc atggagacaa gactcaaggt 300  
 gagangagat tgggtgctta accaagttcc gaagcgggaa gtcttgtgta ctgatagcta 360  
 ctgacgttgc tgcccgggga ctccacataa a 391

<210> 7009  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-H2

<400> 7009

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 aacaccgcac ttgatttggg gctggagagt gtttatgggtg aaactgtgga accacggtct 240  
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 acccaagaaa tcattaattt aagtagaaaa acaaagaaag acaagagaag aagagttttg 360  
 ggttctcatt taactacttt tgggtgttta agagaaagag gagcatattt atgcatgaat 420  
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<210> 7010  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-107-Q1-E1-H3

<400> 7010

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acgagaacaa ggactcgtgt attatccatg tcgaagaaag atggtcgcac tgataaagat 240  
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 cttgttaaac gaatcgcaaa gatggctcct ggaattgggtg gatttggtgg tctctttcca 360  
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<210> 7011  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gagaagagga gaaatcgaga tgggtggtgt tcgagagcca caagagctcc aaacattctc 180  
 aatgggttca atcaacactc gctgagattg atgcaaagac aaaggcaatg ttgaagttgt 240  
 tagacggaaa cgcanactct ttcgctcagc gtgctgagac ttactacaag aaacgtcctg 300  
 agcttatcag ctttgtcgaa nacttttata gagctcaccg ttccttatgc cgtgaacttc 360  
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<210> 7012  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 <223> Clone ID: LIB24-108-Q1-E1-A5  
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gtcctatgga atcgagcttt cgtactcggg aacggagatt ggctgtgacc gttgccgaaa 300  
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<210> 7013  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-108-Q1-E1-C12  
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 gaaagactcc tgagaagctg ggggtggggga acgggctggg cagtggaga cgctaaagac 180  
 aagatctgga aacttctaga agaatacgaa gtangaggag taatatcana ggcttgtcga 240  
 tgcatacgcn atctaggaat gccgtttttt aaccacgagg tggtaanaa ngctttggta 300  
 atgggaatgg gnaagaagaa cgatcggatg cttaatctct tgcaggantg ttttgctgaa 360  
 gggatcatta ctactanccn aatgacaaaa nggtttgngt cgagtcaaag atantcntna 420  
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 <213> Arabidopsis thaliana  
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 canattccga tgagtaaaat gagctgttgc tctcgggtgt tgcangagtt atgaaaacga 180  
 cgtanctaag gtggaaaaag atttaaccgg agataaccgg tcggttttgc cacagtggnt 240

gcanaacgct aaagctaata atgatgggtga caagaaactg acgaaagatc aacanattgt 300  
 ggagttgcag aanaaatgga acgacttatg tttgcgttta catccgaatc agtctgtgtc 360  
 tgaaagaata nctccttcta cgctgtctat gatgaaan 398

<210> 7015  
 <211> 401  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-108-Q1-E1-D10  
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 caccggacgt tacagtggag aactgcaga tctccagctt gaacgtatca atgtctatta 180  
 caatgaagct tcaggtggaa gatacgttcc tcgtgctgtt cttatggatc ttgagcctgg 240  
 tactatggat agtatcagat ccggaccgtt tggtcagatc ttccgtcctg ataactttgt 300  
 ctttggtcag tctggtgctg gtaataattg ggctaaaggt cattacactg aagggtgctga 360  
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<210> 7016  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 7016

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 gagatcagca aacaaagcat atnagagagt tctgattttg atgaaacaag ctgtggagag 180  
 cgggactgca cttgtgttag atgctgctga tctggacgca gacacagtct tttcaaaaag 240  
 ctgttgccct ttcgagtgtg gcttcancag gaccaagttt tccagcatgg cttgagaaaa 300  
 caaccaacgg ttaagaagca ggaaanccaa gaattcgggt acggagactt ggaggcaaaa 360

tcaaagtaat gtagtgggtt cnaggaatgc ntccnantca ngtaatgttg tgggttttggg 420  
gaaaaagaca anttggcaga 440

<210> 7017  
<211> 391  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-108-Q1-E1-D12  
  
<400> 7017

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caagatcaaa tactgtgaca catgcatgct ttacanaccg ccccggtgctt ctcattgttc 180  
gatttgcaac aactgcgctn agaagtttga tcaccactgt ccttggtctg gtcagtgcac 240  
tggattgaga aactataggt tctacttcat gtttgtgttg tgctcaactc ttctctgcat 300  
ttatgtccat gtgttctgct ggatntacgt caagcggata atggatagtg nagaacataa 360  
acatcntgga aatcgtttct cnaagactcc t 391

<210> 7018  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7018

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agtctaaaca ctgtggtaga aaaaaatata gactttttaga tatgtgtagt aaaataacat 120  
tagtgtaaac tttattttcc agttatttca tatcaacaga tgctgtgaat ggatcatttc 180  
ctgcgctttt ggcttttggg gattcaattc tcgatactgg caacaacaat tttctcctga 240  
cttttatgaa aggaaatata tggccatatg gaaggagttt cagcatgaga agggngacag 300  
gaagatttgg aaatggaaga gttttctctg anatangttg ctgaaggttt agggatcaan 360  
aagattttac caagcttata gtaagttggt caantcgcca agtgancnta gaaactgggt 420

gtttgcntcg catc

434

<210> 7019  
<211> 464  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-108-Q1-E1-E12  
  
<400> 7019

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aatgcgggga ttgcectccc tgcgttggtac ccgtttaccc gaccgggtc gatactcacg 120  
ccgccaccgc gaaactctcc tctgacaatt aatttattat gggttgcttc aactccaagc 180  
attcttctcc ggccgggtcct ccacgccctg tccgcgctcg cttggacacc aacgtccacc 240  
gaagtcatac ccaagatccc cataaccgcc atgttcttcc cggtcaccca tctaccgcc 300  
gtgtcgtcaa ctcatctccg aaaaaacatc gcaacaatga cgacgatgct ccaaaatcga 360  
ggacgactgg tgtagccta agatcgggat tgccgcacag caatgtanag gctgagcang 420  
tggcggtgg ttggctcct ggctcagctc tgccgggtcc cgna 464

<210> 7020  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7020

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atcagagaag atacagatca agaattttc tgcaggtaca tttcccttaa tcggctaaat 180  
gaatccattc gcattaagga aaagttggaa ccaggatgtt ctgtttcttc tctgtcaacg 240  
ggaaaaggag ttgaaagagc taatagtagt cttatccgat gcaagctagg ctcaactgaa 300  
gcagttgtga angatgcgca cattagaggt ttctggagct tccttaagat gacattagga 360  
cttttgagta tacatgctta ggacaantac gggatttttag gagccttga 409

<210> 7021  
 <211> 424  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-B12  
  
 <400> 7021

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acgentccgc ccacgcgtcc ggtcgtgttt cttcttctct ttgataacaa tggcttctgc   60
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caccggatct acgtcggctg cgtcatcagc cggatttcgt cttccttctc aaccactcg   180
ccatttcncc ttctccagat gtccttcgga ggctgggatg tgttcagtcg ctgttaccgn  240
tgcacagcac ggtggcgng gcgaggctga cgtcatgtct aagnacaant tcaaggagta  300
ggcgaggctc tctctcaagg gtanactctg ctgcacntct cncgatntct aaggcngttt  360
ctcnnnacgt ttcttngag gttcacattt ttgcttnenn ccaagttggc atttaactct  420
ccct                                         424
  
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<210> 7022  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-B4  
  
 <400> 7022

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cgttcttctg attttcacca gtcagatct ccgacaacat tcnggtatca tttctcgctt  120
ttttttctc caaatcctta tccgccagat tacgaaaatg aggagcttga tccgagagag  180
gcatagtgaagcttatctg tgaattctta ggatttgaat ctgaatactc aggctttttg  240
attccttctc cgttacatgc ngattcaatt ttgagctccc ctgctantgt aaatctcctc  300
agctcggaaa cttagggtn agtttgggt cctttgctct tcgttgcggt aagccatgtt  360
taagaaaatc atgaaangtg ggcacngaa agccctctaa atcccgaagc taaggaaccn  420
gtc                                         423
  
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<210> 7023  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-B8  
  
 <400> 7023

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acttttaggc gccgaaagat agagagaaac atagatacgc attgggtttt ttcttttttg  120
aagattctcg cttcttacta catgtgtatc aatcgatctc tanccagatt ctccggagga  180
gctttgagtc ntgtcgtata catgcagtga aggtcctttg ttagatggga aaacttggtc  240
ttgagttgtc anaaggtatt ttctatgttt ttggagtaga nctgtttana aggaagcagn  300
caatatggag tttgantttg gangaaatgt ttttagtggt gttgtgaana natatcagtt  360
ttgantgttt ttggatgtgn ntggggtnaa gagaaancag ttgggggact               409
  
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<210> 7024  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-C6  
  
 <400> 7024

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gaatcattcg atgacttcta cagataatga ggttcaaaag tatcaggatt tcagtaggga  120
atttaaagat gtgtatgaaa catggcagtc acctcanaag gtgagtcgct caagggattg  180
ctcgcttaga aaaggaagat atgatgaaag tacgactgag aaacaaatgg ctcttggttcg  240
tcaaaagttc tcanaagcaa aacgccttgt aacagatgat agtcttcacc aatccaanga  300
gttccaagat gcacttgang tgттаagctc gaacaaggat ttgtttgttc aatttcncca  360
ggaatcaant tctttctctc agcagaatct ttctgacttt caccatgntc ct           412
  
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<210> 7025  
 <211> 421



<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-107-Q1-E1-C7

<400> 7025

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cttcttcgga tgtttatttg cgttgcctc tgcaatacaa gaggctacga agttaggatc 180  
antgataggg atagatcttg gnactactta ctcttgtgtt ggtgtttaca agaatggtca 240  
tgtcgaaatt attgccaatg accaaggaaa ccgtantaca cttcatggg ttggttttac 300  
tgantctgan agactcattg gtgaggctgc taagaatcan gcanctgtna atccagagag 360  
gactgtcttc gacgttnagg agattngatc gggccnagan atttgaggat aacgacgntc 420  
a 421

<210> 7026  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-107-Q1-E1-C8

<400> 7026

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gtttgtggtt ttgggattga gatctgataa acagcagaag tatgttgagg ccttagcaga 180  
gcagaaggag tcactcttca agtctaataa ggcaatgaaa ctcaccatgt gggagtggaa 240  
acagcagctc tttgctgaag ctgcctctgc gggtaatgcc gcggttggtc ctttgtcgac 300  
gcttaaggcc atctatggtg aagttaccac cacaaccaat caatctggtg acacagccaa 360  
ggaagattct aaagtgtcca ctccaagat catgatatga gangttg 407

<210> 7027  
<211> 396  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-107-Q1-E1-C9

<400> 7027

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cttggttaga acaacatcta gcagaagtag gaaacgcaac tccagctcga aactgcgatg 180  
aatctgtggt ttctctatca tcaagtataa aagcattgag aagagagcga gagtttttgg 240  
cgaaaagggt taactcgaga ttgacgcctg aggagagaga ggagctgtat atgaaatggg 300  
atgtgccatt ggaagggaaa cagangaaac ttcaagtctg tgaacaagct acgggactga 360  
tccttatgat tcaangcacg tgcncgatag tggcag 396

<210> 7028  
<211> 422  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-107-Q1-E1-D7

<400> 7028

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gatttaattt tactatgacc actgtaatct agccactatt taaatttggn atatatagta 180  
actatcttgt ggataataat attttgantg gtttaggcan ggcgagtttt ggagagcacg 240  
agtggacttt cnttantcct cgggatcggga agtatccaaa tgggggtagg ccaaaccggg 300  
cancaacttc cggttatttg aaaagcaang ggaaccgata aaccgatatt tacgtgcaat 360  
agtcacaang ttggtgtcaa gaaaagcgct tgnnttttaa nggtggaaag cctccgnaaa 420  
gg 422

<210> 7029  
<211> 381  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-107-Q1-E1-D9

<400> 7029

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tgaaggagct acaaaggttt tcagtgttgt anattcaggt tatcacgcca taaaagatat 180  
aaaggaaaca ttgactcca gattccagtg agaagggaaa nanaaagctt caaactgaca 240  
ntatcatccg ttanacanaa acgttcttgc ttgtcgtgcc angcattgnt ananctttgg 300  
tnaattctca nncanaggaa ttggtttatg cttgtgcac aaatgttgtg ttacatttca 360  
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<210> 7030

<211> 472

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-107-Q1-E1-E4

<400> 7030

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cggaagcaat gaacaacaat gctgtgataa acacgtgtct aggagtatcg tttgtggttt 180  
tggttgattgag atctgataaa cagcagaagt atgttgaggc cttagcagag cagaaggagt 240  
cactcttcaa gtctaataag gcaatgaaac tcaccatgtg ggagtggaaa cagcagctct 300  
ttgctgaagc tgctctgcg ggtaatgccg cggttgttcc tttgtcgacn ctttaaggcca 360  
tctatggtga agttaccacc acaaccaatc aatctggtga cacagccaag gaagattcta 420  
aagtgtccac tccaagatc atgatatgaa gaggttggtta aatttttttg ta 472

<210> 7031

<211> 418

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-107-Q1-E1-E8

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ttagtataga gttatcaaat gggcacaagt tctatgttgg tgggagagat gggttgggtcc 180

ttactccttc cgaggattat tctcattggt ctcaccgaaa ccggtttcaa gtcaacgaca 240

ctctttatct taagtacntg aanggaaaag attcagtgtt ggaggtgagt gaaaaanagt 300

acaacacatg caacacgact caccctttga cttccctctc agacggtgac tctctcttcc 360

tacntaagcc gctcagnncc attcttctc gtcagcngca acccngggt tctgtccc 418

<210> 7032

<211> 427

<212> DNA

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<223> unsure at all n locations

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<400> 7032

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gatggcgaca agcatcgcca ctggtagaag aagctacagt ctgattccga tggttattga 120

gcactcatcg cgaggagaga gagcttacga catcttctct cgtttgctca aggagcgtat 180

tatctgcac aacgggtccca ttaatgacna cacatctcac gtcgtcgtcg ctcagcttct 240

ttacctcgag tctgagaatc cttcgaagcc ngatccatat gtanctcaat tcccctggcg 300

gccatgtcan cgccggtctt gcaatttatg atactatgca gtacattct tcnctatta 360

gcacaatttg tttgggggtca aggctgcac aatgggcttc ncttctgttt ggcagcgggt 420

gccaaag 427

<210> 7033

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-107-Q1-E1-F12

<400> 7033

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acgaaaaaga aaacaggtag aggttcactc cttatcatct ggaagcgagt cagccgggtga 120  
cattgaaggt gaagaggatg ttcagagtac atggaaagag gacggaaatg cgccaagctc 180  
gggtacatth gatgaatgtg atgattatgg aggtgctcta aaaatcactc aggaaggtga 240  
tgtgatgcaa gaagaaagtg actttgatca ctgttcttca nattgtacan anatganaga 300  
atcaatgatg agagagatan agaaccttga actgaagctt caattgtatg gaggacatgg 360  
gtctgaataa tttaacctac gacgagcttc ttcanttttg gaggcac 408

<210> 7034  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-107-Q1-E1-F7  
<400> 7034

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tcgaagtagt ggtggtcctt cattacctct cctcactatt tctaaagcac ttaaccgcca 180  
ctttaccggc gccagacacc tccatccttt attgctcgtt cgtgtttctc cctccgtgcg 240  
acgtcttggt gggtttcatg gcagtcgatt tacttcgtcg aattcagctt tgagaagctt 300  
gggagctgct gttttgccgg taatccgaca ccgttttagag tgtttgctga gctcatcgcc 360  
gtctttcagg agtatctcan ggtggcggcg gttctgggat ttgggggggt ataatggtn 419

<210> 7035  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-107-Q1-E1-G1  
<400> 7035

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aggttatacc gagaattgtc tctatgtgtg cttacgtttc tctcatactg gccgtagcca 180  
 tcgctgggtc atgcttcgtg agaagaacaa gtcaagtggg tatgttttgg caccaatccc 240  
 aatttcccat tctccttctt tgcacgcgtc gagtatcgtg gcggttggtt ctaaaatcta 300  
 caaaattggc ggagtcatgg atggatctag tgtttcaatc ctagactgct ggtctcacag 360  
 gtggctcgaa gctccaagca tgcanatgga acgggaccgc ccatcagcca atttaattga 420  
 a 421

<210> 7036  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-107-Q1-E1-A7

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 ctcacactat gtgttaaacc angcaaagga tggatgttcc actggcgttg caagattatg 180  
 ttcctctgaa gaccttgctg tatatgtaca agctttgaaa gattgtatac caagaattcc 240  
 tccaaacact ctttctaaga cacatggnat gattgagatg ccaaatccta ctccagaatt 300  
 cttgattttt gaagcatttg tcgaaaccga tgaaatcata gtttcatcca aagccaagca 360  
 gcaggctctc ttggaaangt acgacgcggt gggtagaaga tgactgtggg tgtaagtggg 420  
 aaagcgtggg gtcaaat 437

<210> 7037  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-104-Q1-E2-E5

<400> 7037  
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 ggaattgggtg aagagatatt ctgaattcat taacttcctt atctccctct gggctancaa 120

agaggttgaa accgaggtcc canttgagga agatgaatca gctgatgagg aaactganac 180  
cacctctacc gaggaagaaa aggaagaaga tgctgangag gaagatgggtg agaanaagca 240  
gaagaccaag aangtgaaag aaacanttta tgaatgggaa gttctgaatg atgttaaggc 300  
tatanggtg anaagtccaa aggaggtgac agaggaagag tacactagat tctancantc 360  
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<210> 7038  
<211> 393  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-E6  
<400> 7038

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agtcaacaag tagcgatttc gttcttgacg aacttggcga aggcggcggtt tgggttaggt 120  
gtggcggcga cggcactaaa ctcgctcgctc tacactgttg atgggtggcga gagagctgtt 180  
ttgttcgata gattcagggg agtggttgat cagaccgtcg gnaaggagac tcatttcttg 240  
atcccgatc tccagangcc gcacatatac gatattcgta cgaaacctca cacnttctcc 300  
tccaagatct ggtacnaagg atcttcagat ggctaatacnc acccttcgtg ttcnctttcc 360  
gccctgaggt ttcgctctc ccgtncattt tcc 393

<210> 7039  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-E7  
<400> 7039

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tctctctc gtcggaaaga atctggcttg tcttctcctt gtggcagaat cattactgat 180  
aggtttgggt gctgttgacc anaggttgct tgtcaaggag gggtacaaaa gaggaatccg 240

tattgaggaa aacaaagatg ctaagtgaca gtgacgatga cgacgatgat gaagacgctg 300  
 atgaggacga cgatgatgag gatgatgcta atgatgaaag atttctcagg ggggtgaang 360  
 ggatgaagga gaagaaggaa gctggatcca aaggatgatc ctgtgaccan tgggtgga 417

<210> 7040  
 <211> 372  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-104-Q1-E2-E9  
 <400> 7040

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 catcctatct ccaatcatag ggtttgtatt aatctttctca ttcccaacaa aaaccctaaa 120  
 agccaaaacc gcatcacctt ctaatccgac atcggtacaa ctcacggctt ctattctctc 180  
 cttcaacaaa aaccgccacc gtcttctcca atggtacaca gatctcctcc gtctctctcc 240  
 gtctcaaacc atcacgctg atctcctctt cggctcgtcg actatcatca ctgcaaacc 300  
 tgaaaacgtt gagcacattc tcaaaacaaa tttttataac ntccctaaag gnaaaacttt 360  
 caagcgacct ct 372

<210> 7041  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-104-Q1-E2-F10  
 <400> 7041

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 attgaaaagt ctggacctga gtttttagtt gaacaagcaa agctttgccc tgggtgaaatc 120  
 acggttggtg ctttgggacc actaacaat ctcgcgttgg ctgttcagct tgatccagag 180  
 ttttcgaaaa atgtcggaca aattgttctt cttggtggag catttgagc aaacggaaat 240  
 gtaaattcag cttcggagc taatatcttt ggcatcccg aagctgcaga tattgtgttc 300  
 acatgtgggg ccgatataat tgctgtggga atcaatgtga cccatcaagt tattatgaca 360



gctgatgaca agggacaaaa ctagcatcat cnaangggga aaataagctc aatta 415

<210> 7042  
<211> 378  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-104-Q1-E2-F5

<400> 7042

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ctcccagaga tccaagacac agtctgcgta agaaaaggaa acgtaaattg cattcatcga 120  
gtcaaaagac tacagacatt ggtagtagca gccacaatgc tgtagaaagc agctctcaag 180  
gcaatccaca aacatctgca actcctcctt tgcctccacc gtctctggcg ggtgaaactt 240  
caggggtcttc tcaacccaaa ttacctctc acaacctaaa tagcacagaa ccactgtcct 300  
ctgaagcaat cataattcca ccacctgaag aagattctgg tgatagcagc agcgccatct 360  
gaagcaccag ggcctagt 378

<210> 7043  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-F6

<400> 7043

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tctgatgcca gctcttttgt ggtcctttac attgtaatgt ctgtatactt ttctggagtt 120  
atggttcgtc ttatgctcgt gcttgctcca gcagcatgca tcatgtctgg gattgcgctc 180  
tctcaagctt ttgatgtttt cacgggttcc atcaaatacc agttangcgc atcgtctaata 240  
tccacagatg atgcaganga caacacttcc acnaacaatg ccccaaaaga tgatgtttct 300  
gctggtaaga ctgacaaggg tgaaagagat tgtaaaanag cggtcttcca aaaagggcaa 360  
gaagaaanag agagaaccgg ctgataaanc ttctgttaag gccaaagatta aaaagaangc 420  
t 421

<210> 7044  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-G11

<400> 7044

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taagaacatg cataaacata ctcgcaatga cagagggtttt gcatgcagaa gtgccttcct 120  
ttatcgggga caccaatggt gttaagcttt cttggaaaga agccacaaag ccattagcct 180  
atacaagagc tttatataca gacctaattgt atggcatacc cccggatatt gatgcgtttc 240  
ataattttat ggacaaactc tcagaagact tgctgaataa actagatatg gagggaatgt 300  
gcgaattaga agatgatcag gttcaaagca cttgtgggtt catcangact taaacaaagc 360  
acaagacacg tttccaagaa aagtaggant ttcctacatg aaaaatccca aagttacctt 420

<210> 7045  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-G12

<400> 7045

aataaataaa ttttaagagaa atatctaagt ttgggttctt ccctgtgtct acccaccgtg 60  
atcatcataa aatggattgt gatttctgat ttgtgagtct atctttctct actccattag 120  
cttcctctcc cttggatggt tacgtcactt tctccgagct tacgtcatct atatecggtc 180  
ttcacttctt tttccttcca ttcctcagca gcattgcgta atctatctga gttcaagatc 240  
atatgatatt ttcactttct ggacaaaatg ggacatttct cttccatggt caacggtata 300  
gctagatcct tctcgatcaa gaaagcgaag aacatcaaca gcangcaaaa gctacgctaa 360  
ggaagccaca gatgaaatgg gcgaganang gggaacaaag aaaggaccta atttggg 417

<210> 7046  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-G4

<400> 7046

acgcgtccga acagaaagaa agtccacgcg aggacataag cgcgtgtgat ttaaaatcgt 60  
cgtcgtcgtc ttccacaccg actttaatct gattcttaga atcgccgttt ggtttttaac 120  
cagagagatt atctaccaag gaacgatgat tattgaaaga gctcgagttc cgttgagccg 180  
atggnaacaa agcggccgtg gcgatgggat ctgcnctcgg tgcgttggt gatnctcgta 240  
gagcggatcn aancgcagct ctngggcgaa actaccggtg aaccagcttt tagnaatggt 300  
cttgagaaga atgaagaaga gcgnaagaan ggaagaagtn cgtttttcaa aatcaactca 360  
acnttctctc cttangtggg ggtcaantca ttngattttt ggccttagga atggattgat 420  
ttagaaaatt gnttcga 437

<210> 7047  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-G8

<400> 7047

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cattcagttt tatccccctt ttgaagaatc ttcgtcagga aataatgaga tattcaggtt 120  
ctcacatttt cctaaatgaa cgtgagcttg aagatatctg caaagcctgt ggtctcgta 180  
acttcaactg tgtagaaac gggccattta taatgctatc tgcaacaaaa ccagctaag 240  
ctcacctct ttaaagtata tatacttttc tgtaaaaaat tggataaaag ttataaacat 300  
tataacaact tgagttccat acagtatacc taatttgtaa agctttttgc aaatgttct 360  
attatctagc ttgtaaattg gggttaacat ggtttgcana ggggtcttc ttctgtgaa 420  
aaaa 424

<210> 7048  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-H3

<400> 7048

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tcgaagacgc tgggtgcaacc ggtagggcaa aagagggtga ctaatgttgc agtgggttcgt 120  
ctcaaaaagc aaggcaatcg ctctgagatc gcttggtaca agaataaggt cctttcatgg 180  
cggctctggcg tggagaagga tatagatgaa gtgctacagt cgcatactgt ttattcaa 240  
gtttcgaaag gagttcttgc aaaatcgaaa ngacttgatg aagtcgtttg ggatcaggat 300  
gatcatacga aaatatgcat cgatattttg gagaaaggga gaacttcaag ttgctggaaa 360  
nagaaagaga atcacaagtt ctcaagccag tttcggggat atagccancg attgttatgc 420  
aagaaaacta 430

<210> 7049  
<211> 408  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-104-Q1-E2-H7

<400> 7049

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aaagcagatt ttgtgttcaa tttccatgga agacgaacca ggaagcgaaa atgaagcaga 180  
caccatagtt gcttcaccac ttgcaaaatg gagaatcgaa ttctcgaaat cgtttcagaa 240  
ttacttagga cagatctgct cctaacattg ttcgaagatg gcttgtgact ttagtcgctg 300  
cagtgatcna tatctatagg gtttactctg tttaggggnc ttccgttanc tcntanggct 360  
tagcnactta tatcctaant nntccgtga ttggtttcct ttccccta 408

<210> 7050  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-104-Q1-E2-H8

<400> 7050

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tcactctcgt ccctcttcat ctctctccat tcccgctta tctttacgaa tcttcacgcc 120  
gacggcggca acgacatctt ccgctgttat tgaattaccg gcgaacgtag cagaagctcc 180  
tcgttccaaa cgccattcca attcatacct ggcgagaaaa tccgccattt ctgaagttca 240  
acgctcctcg ggattttctc tcttctctgc agagattagc aagcagtttt gaaggtacaa 300  
gatttgaatg taattttgcg tgattttggn atctctggaa agatgggcag gatcttatac 360  
angctctttg aatggatnga acaacatgga aagattagtg ttcaacctta cagtnactgg 420  
cataaaagttt 430

<210> 7051

<211> 436

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-105-Q1-E1-C10

<400> 7051

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gggactttct tgttaaagct ttacttgagg aggaagtttc ccangacgtt gtatcgactt 120  
tgccccttat gctggcaaag gtatgttgat gctcgtgagc aaccttgaan gtggatgtcc 180  
cgcaactaag agagttcaaa caattctttt caacgttcaa gtcttacatg agctttatca 240  
agctcaagca tcgatatccg catcgaaaaa catcgatgtg gagatgaatg ggagatgtga 300  
attgctttcc aaggctatgt ctgcattgac tggaancaaa agcagccaat catcggaagt 360  
taanaatgan catgttgtca antgggaaan actttggttg ngcagannan gcaaggttca 420  
aggatgatgt ctttga 436

<210> 7052

<211> 415

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-104-Q1-E2-E10

<400> 7052

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ggcaatacaa tgggggattt tgatggccat tctcgtaggg ttttgagttg tgccttcaag 180  
ccaacgagac ctttccgaat tgccacatgc ggtgaagact tcttggttaa cttttatgat 240  
ggaccacctt ttaagtttca ctcttctcac agggagcatt ccaacttcgt caactgcac 300  
agatattcac ctgatgggta ctaaattcat taccgtaagc tctgacaaaa agggatgat 360  
ttacgatggc aagactgggg ataaanttgg ganaattggg cctcaggaag atggg 415

<210> 7053

<211> 456

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-103-Q1-E2-B9

<400> 7053

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cccacgcgtc cgaaaaatcg aaattctcat caatagcana aaaaaaatta ctcttagatt 120  
ttctcaaaa accttaatca atcgccggga aaatgaatat tccggtgact atttctcca 180  
ttactgtttc naataacgct gtttccgaca atcgtcgtca tgtttcccggt gaaaatcgtc 240  
agcgtaaga aaaccgtcac ttatatTTTT tttcntttc ttentcgttt ttgtgaagat 300  
gatgatccac tgatttgaga gtagtagctt gagaggtttt tagtagattt cgattttgcg 360  
attatttttg tttcttgga gagatctcat ttttttgcca cttccgatga tgaagattca 420  
agccgattaa caacgattgc cgggcgaata gagtgg 456

<210> 7054

<211> 405

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-103-Q1-E2-C11

<400> 7054

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tcaaggcaat ctctctctct ctgctctatc tcataaaccc attacaccaa agcctcatcg 120

tagagagaga aacacaccan ccattgttac actctaagag aagagaagag agaaggaaaa 180

atggnccgtg tatcaccaaa gtttgtgttg ccggagacat tcgacggcgt gaggatggag 240

atcacaggcc aactaggcat gatctgggag cttgtaaaag caccaagtga ttgtccctct 300

tcttcaatta gctgtttaca tctgtttgct tatgtctgtc angcntttat gtgaganggt 360

ttacatggga atcgctcatcc gtccctcgtn aactcttctg gaaaa 405

<210> 7055

<211> 438

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-103-Q1-E2-D9

<400> 7055

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atcgatttga acggtgacgg cgaatgtggc ggcgaagtaa cttaccgggg aatccangat 120

tccgatcagn gcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngttgtggt 240

gagctaaatt atgctagga aaccggtgat gtaactcctg gaagcaactc tacggaaaga 300

tatcatcttc tcttgaaaga tgtggtcgaa agttcctgac tccccgaag gagagttata 360

tttcttcttc caagaagaac tgggattagc atgcatatct gctccaggga aaatggggtc 420

agatgatgaa gatttcnc 438

<210> 7056

<211> 465

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-103-Q1-E2-E11

<400> 7056

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 cttctttttc ctccgtagca cgaccaagaa atctctccgg ttanctccgg gaccaaagc 180  
 tcttcttatt anaggaaacc ttcaccaaga tggagaaatt caacccccan nacttctttt 240  
 tccgtctctc caagctatac ggccccgattt tcacgaatga aaatcggtgg ccgtcgcttc 300  
 gcggtgatct cctcggncca gctagccaag gagctactca aaactcaana cntnaacttc 360  
 accgcgcgtc ctctcttgaa aagggcaacn naccatgtcg natcaanggc gtgancgttg 420  
 gtttcgggga gtacaaccgc cgtacgaacg gtgagaatga aggaa 465

<210> 7057  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E2-F11  
  
 <400> 7057

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 cgggtgtaaaa atagtcggag ctatggcgat gcaggccgga gttggcttat ccaggatctt 120  
 tctcttagcc ggagcagggtt aacttggtac gatcatgatg aagaatggaa aattgtcggg 180  
 tttgttgggt gaattgcana gtttgggtgaa gggaatggag aaatctggag aagggctctga 240  
 gggagattct gatgtttctg atgctatanc tgcacagggt cgccgggttg ctatggagat 300  
 tcgacagcta gtttcgcagc aacacataac ggtcatgaat ggagtttctg gtgcaaacct 360  
 acaagccctt gctgttcttg ctgcgggcat tgggagctct cggatatggt tatatgtggt 420  
 gggaagggac tctcaantca ctgaccttaa gtatgtgac 459

<210> 7058  
 <211> 456  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E2-F9  
  
 <400> 7058



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 tgcagtcgaa gagcttttca cgaacaacaa gattcaggtt ttggtctcaa caagtacctt 180  
 ggcatgggga gtgaacctac cagctcactt aagttattat aaagggaaca gaatatttcg 240  
 acgggaaaac caaaagatat gttgacttcc ctcttacaga gatcttgcaa atgatgggac 300  
 gtgcagggcg accacagttt gaccaacatg ggaaagcggg tattcttgta catgaacct 360  
 aaaaaagctt ttacaaaaag ttcttgtagc aaccattccc cgtagaaagt agtttgaaag 420  
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<210> 7059  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E2-G11  
  
 <400> 7059

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 cgacccggat actatactaa ttgaggcgta ttttgaccgg gtttgcccg acagtagaga 180  
 ctcttggncc ccaactgaagc aagctcttca tcaactatgga tctcgcggtg cccttctcct 240  
 ccatctcctt cctttaccct accatgacaa tgcctatgta acatcacggg ccttacacat 300  
 tgtgaatacc gtacacgcca atgcnacctt cagtttgctg gaagggttct tcaagcatca 360  
 agtcattggt ttacaacgcg caaacacaac tccctttcaa gacctgcagt tgtnggag 418

<210> 7060  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E2-H12  
  
 <400> 7060

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tgaaggaaaa agcgagaaag atggctatga aacagtgaca atgatatgtg caaagaagaa 120  
 cggaagagag agatcttctt caaggttcta cagagagttg atatttcttc tgagaacatg 180  
 agagcacttc cttacgactt tgtgagaagc ttctccaaca atgagctctc tcgtaagatg 240  
 aacgataaaa gctcgatggg gaagttcttg ggaagtagaa atctgcaaaa atccaagatt 300  
 ctatttcatg gngaaatccg gatgggagaa ntttgtgacg tgacaatgcc ttgggagcca 360  
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<210> 7061  
 <211> 457  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E2-H9

<400> 7061

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 tgaagttagg gatcagggtca aggcgaatgc aaggtcaggt ggctttgtaa tctctttaga 180  
 tgtatcagtc acagaggaga ttgatctcga aaaatcagca tcaagtcatg atagagtaaa 240  
 tgattataat gcttccttga gacaagagtc tagaaatcgg ttataccgag atggtggnaa 300  
 aactcgtctg aaggacactg ataatggngc tgaatctcac ttggcaacgg aaaatcattc 360  
 acaagagggg catggcaant cctgaagaca ttgataatga tcgtgaatac ngcaaaagca 420  
 agagcatgng cctctctgca gcagatagat gaanaag 457

<210> 7062  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-104-Q1-E2-B3

<400> 7062

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gaatttcctt ctgcgcactt tcggaagatt tgggcccata gctagtgtca agattatgtg 180  
 gccagaaca gatgaggaga agaggcgaca aagaaactgt ggctttgttt cttcatgaa 240  
 tagggctgat ggacaagctg caaaagatga aatgcaaggg atcatcgtgt acgagtatga 300  
 actgaaaatt ggatggggta aagcagtttc tctaccgtca caagcattac ccgctccacc 360  
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<210> 7063  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-104-Q1-E2-B4

<400> 7063  
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 ctattgacat cgacgggaat ctgcactccg attcgaatct taacactgac ggtgacgaag 120  
 cgaccgataa tgattcctcg aaggcattgg ttactatccc tgctccagcc gtttgtcttt 180  
 tccggttcgc cggagatgct gctgggtggc cgttatggg ctctatcttc ggatatgggt 240  
 caggattggt caagaagaaa ggcttcaaag gatcatttgc agatgcaggg cagtctgcta 300  
 agacttttgc tgttttatct ggagtcaca gtttggttgt ttgccttctg aagcaaatcc 360  
 gangcaaana tgacgccatt aatgttggag taacanggtg tttgcaactgg gncttgct 418

<210> 7064  
 <211> 394  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-104-Q1-E2-C7

<400> 7064  
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 agtatatgga ttcaaagctt tagcggagct acatacacat tcgctatcta ctcttcaatc 120  
 ctcaaatcat ctcaatctta tgaccagtct actcttgatt tcgtctctgt cttcaaagac 180

atcgggtggta cctttggtat catctccggt ttcctttaca cggctatgac ttctaagtca 240  
 cgcggttttg gtgggccttg ggttggtgtt ttcggtgggt tgggtcaagt ggtttgttg 300  
 gattcttttt tatttgggct tccgtggttg ggttgattgc tccgccgct gtgccgttga 360  
 tgtgcntgtt cgtgttcttg gctggtcact cnt 394

<210> 7065  
 <211> 407  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-104-Q1-E2-C8

<400> 7065

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 gtttgatcgg aaaagtcatt ggtaattgtt gcggaacagc aggatcattg gctcaaaacg 120  
 ataacaaacc caaaaaagga aggaagaagc aaaacccttt ctcgattgat tacggctctc 180  
 accacggttg tggagatgga ggtggaagac ctcttaagct tatcgttttg aatgatccaa 240  
 caggctcgtga gatcgagtct aaatacacgt tggggagaga gctangtcgt ggagaattcg 300  
 gtgttacgta tctatgtact gataaggaga cagacgacgt ttttgcttgt aaatcgattt 360  
 tgaagnagaa gctgangaca gctgttgata ttgaanatgt tagggaa 407

<210> 7066  
 <211> 385  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-104-Q1-E2-D9

<400> 7066

acacaaggga cgttctcatt acccctttac ttgaaaaatt tccccaaact gggcaaagac 60  
 tatgaggctt tcgcaaaca aggtatatcg gacttttttg gtgacctaga gggatatgtg 120  
 cctaaaaccg canagttcaa ggatttcttt gaaaacttga aggattacat ggccttcttc 180  
 aattcagcag caccgggtc aaaagacaac cagttcgaga tgttcgtaaa atctgaaaag 240  
 ctgttcaagg ctttggctcg ctttcaacag tagtaaaggc ggaacatcan aagattcgtg 300

gaagctgggtg gatggattgt tgtcaatggg taaagggttg gttganatta ataanancgg 360  
 ttcgaaggag aatacttttn aacga 385

<210> 7067  
 <211> 464  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E2-B10  
 <400> 7067

cttttacttg gnccaggccc cgggtcaagaa naaccgggn cgaccacgc gtccggcata 60  
 gaatcgtcgc tgategaagt gattctgctc gattttgctc tcaattgaaa gatctgagt 120  
 atttgtttca gatcttctcc gaaaggatga agcggattgg agataaagaa atcgacgggt 180  
 ctgggtctca aaatcaacat ccagtgggct cccctcgaaa cgaattacaa gggcaatctc 240  
 caaaacctgg aaacggtaac accaaagatg ctttgacaac cgatgatgct ttggcctact 300  
 taaaggaaat aaaggacgtg tttcatgac aaaagtacaa ataccatctg tttctcgaag 360  
 attatgagcg acttcaaggc acaaaggacc gatacttctg tcgtgattgc acgagtcaaa 420  
 gacctgttaa aggggacata accatttaat tctccgtant taac 464

<210> 7068  
 <211> 497  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-F1  
 <400> 7068

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 gggccccgaa gaaaggagtg aaggtagctg ctaagaagaa gaccgcggag gaaagtttca 120  
 aacctctat tcgagaggag gcctaagcaa ttcggtattg gtggagcttt acctcctaag 180  
 aaggatctct ctgcctacat caaatggccc aaatccatcc gtcttcaaag gcaaaagagg 240  
 atccttgaag caaaaggttg aaggtcctc caactcctaa ccaattcaca aagactcctt 300  
 gacaanaatc cttgctacca gcctcttnaa aggtccttct ganntacaag ggcannanga 360

caaancctgc caaaaaangg agcgtcttgn taaanaaagg cccaagctng aaancttagg 420  
 ggaaancctt cngattctaa anaagcccat tgtagtcaaa taccggcctc aaaccatgtg 480  
 acctaccnca ttggggg 497

<210> 7069  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-F4

<400> 7069

tnccggtccg gaaatcacgg gtcgaccac gcgtccgggt taagtctcaa gttattctct 60  
 tcgtgtcctg aatctgtgca ccaaagggtta tcgaaaatgt cagtgcgagt tctgaatcct 120  
 aatgccgagg ttctcaacaa atctgcccgc cttcatatga ccatcaacgc cgccaagggt 180  
 ttgcaagatg tactcaagtc gaatctcgggt cctaaaggaa caatcaaaat gcttggttgg 240  
 ggttctgggg atattaagct taccaaagat gggaacacgc tattgaagga aatgcaaatt 300  
 cagaatccaa cagccattat gattgcgagg acagctgttg cacaggatga tataagtgg 360  
 gatggtacta cttccactgt tatcttcatt ggtgagctta tgaaacagtc tgaacgctgc 420  
 atcgatgaaa gtatgcatcc acgantccta agntgatgggt ttcgagattg ctaaganagc 480  
 tactcctcaa atttcttga 499

<210> 7070  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-F5

<400> 7070

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 cattctcttg gaagcgtcgc atcttcttct ctgtttcctc actcctcctt cgtgcttcag 120  
 aaaaaacatc cgatcaatgg gacgagcacn aggatgattt caccaaatg tgccgcttct 180  
 gatgcagctc aattgataag cgctaaagaa gatatcaaag ttcttctccg gactaagttt 240

tgccatccca tcttgggttag attgggggtgg cacgatgctg gtacttataa caagaatatt 300  
 gnggagtggc cactgagagg tggagctaata ggnnagtcnt aggtttgagg ctgacgctta 360  
 agcatgctgc aaatgctggt ctgcttaatg ctttaaagct cattcagcct ctcaanngac 420  
 aaggtatcta acaatctcct tatgcgggac ttattccaag tttagctant gc 472

<210> 7071  
 <211> 502  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-G1

<400> 7071

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 catggcgctct ctttcttcta cctctctctc tctccccaag aattctcacc aactccatcc 120  
 ttcactctggt ttttctctga atccaaatgc tcgttggtgc agtgtttcat ttggactgaa 180  
 tcaactccaac aaacttcata tttctgctcc taagaaccaa aaggatccta accattcaat 240  
 ctgcanacag agatgatgat ggttcaggca gcacaggcct attcgtcgga ggggtttattt 300  
 tgggcggggac ttatagtcgg tgccctcgga tgtgtatatg caccacaaga ttaagcaagg 360  
 cnatagcctg gagcagaacg gaaaangatt tcatgnagga aanttggcct aaaatcnata 420  
 atatgacnna nggaaaaaag cttgggngaa naaacaacct aangtactaa gctgnagaaa 480  
 aaattggctc angccttaaa ct 502

<210> 7072  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-G3

<400> 7072

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 ttttttctct aaaagtgttg attttgattt cgttgctgaa cggaaaaaga atcagctcct 120  
 ttcagtttag gggtttgggt ttctgtttgg tctctatcag atgatgtgtg aggagattct 180

tcctctgttt gtgtctgttt cagatggaag acaatgataa gtctccccct aaggattact 240  
 ataagattct agaagttgat tacgacgcaa ctgaggaatt gatcagactc aattatcgga 300  
 agcttgcatc gaagtggcat cctgataagc acaaaggcga tagtgcagct acagaaaaat 360  
 ttcaagagat taatgaagct tataatgtgc tgatggaccc tgctaaacgt tttgagtatg 420  
 atttactgg tatatatgag atccacanat acacnttacg ggaaatatc 469

<210> 7073  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-G5  
 <400> 7073

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 actcattcat aacagaaacc caccaaaaaa taaaagaga gacttttcac tctggggaga 120  
 gagctcaagt tctaattggc aacttgggtc tatcagaatg tggatatacga cctctcccca 180  
 gaatctacac aacaccaga tccaatttcc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 atgggttcac gaggaattgg gcgttgaatg tgaggcacac cattaacgac accaatatct 360  
 gaggagtctc cattggaggg aagatactan acagagatnc gattcagngt gcgcctccnc 420  
 ngttcaattt agctgatatn a 441

<210> 7074  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-G6  
 <400> 7074

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 agagagtcca aattcgaaag agaaaaagaa tcaaattcct tcttcttctt tttttgattt 120  
 tcaattatta cttaattctt ctttcccgct ctctattctt cttcttctt aggatcaatc 180



accgttttagc tttcttccca tacgtctctc cgtttacgac cagtatacag aggctggagc 240  
 tggggaagaa aaggattgtc tatggagga agacgtcgga ataggtttgg tatgccanga 300  
 atacnatgga tgggaaggcg agtaatgna atggtttaga gaagactgta ccttcttggt 360  
 tccttaaggc tatggcatgt gtacctgang gangatgcta agtgctactc nactgttggt 420  
 nctggggtgg gttttcgga acct 444

<210> 7075  
 <211> 497  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-G8

<400> 7075

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 caggccaaaa agtctaagga aaacttaaag gagatcacac acaagggtta ttttgatggt 180  
 gaaattgatg ggaaagcagc tggctgtatt gtcatgggtc tatttggtgaa gacagtcccc 240  
 aaaactgtag agaatttccg agctttatgc actggggaga aaggaatagg taagaatggg 300  
 aaggcgctcc attacaaggg gagttcattt cataggatca taccaagctt tatgctccaa 360  
 ggaggcgatt ttacacatgg aaatggaatg ggaggagaat ctatctatgg tgagaagttt 420  
 gctgatgaga acttcaaact caagcatact ggtccaaggt tcttatcaat ggcaaagtgc 480  
 cggtaagat accancg 497

<210> 7076  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-H3

<400> 7076

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cggcacatcaat ctcttccccca aagcttttccc taacgactac aaaaccatcc aagttctanc 180  
 cggcgatggc aacgctcctg gctccattcg cctcattact tatggagaag gatctccact 240  
 ggtgaagata tcggcggana ggatcgaagc agtggatttg gngaacaaaa gcatgtcgta 300  
 cagcatcatt gggcggagaa atgttggagt actacaaaac cttcaangga accatcancg 360  
 ttatccctaa ggatgggtggg taaccttctg aaatgggtctg gtngagtttg agaagaccgc 420  
 ccatgnagat tcgaagatcc acaatgggtca tcn 453

<210> 7077  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-H4  
 <400> 7077

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 ttcttcctcc tgcatttttg gttttggngg cgttgagaca tcatcatgtc nancgcagag 120  
 gatgtgaaag agcaaggaaa cctcaccaac gaggcanaag agtcaatgcc atcatcacan 180  
 caggangang ctgttgtaaa gaagaagtat gganggtctc tgccaaanaa accacctctc 240  
 atttccaang atcatgagcn agcatacttt gactcanctg attgggctct tggaaaagca 300  
 aggtgttgcg aagccaaang gacccttgn aagccttcgt cgcaanttac aaccaacgca 360  
 gcagcagaca cgttacaaga agtctccatt tctccatctg aaggtgggtc aanatggang 420  
 agctgtcca gggccgacng ggaggtt 447

<210> 7078  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-103-Q1-E1-H6  
 <400> 7078

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aagaggaaaag ggaggaaaag gattgggaaa gggaggagcg aagaggcaca ggaaggttct 180  
gagggataac attcanggae tcaccaagcc tgctattcgt cgtcttgctc gtangaggtg 240  
gtgtcaagcg tatcacgtgg nctcatctac gangagacca gaggtgtcct caagatcttc 300  
ctcnagaatg ttatccgtgg acgccgttac ctacactgag cagccagga ggaagacngt 360  
gaccgccatg gnggttgten acnctttgaa caggcaaagn ctntctncta cnggnttcgg 420

<210> 7079  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-103-Q1-E2-A10  
<400> 7079

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aatatctgcg tttcccgttt gcgttttccg gcaatggctc tccaagccac tactactang 120  
ttctgcttct ccggtccaac tttccgatca actcctcact cactcacttc aaaacgtcct 180  
atctccatca aagctactac ttctttctct tcaagactct ccaattcacg atctaattctc 240  
aaaggaagag cattgtctag tgatgggttca acacnagaa tctccttatg tantctgttt 300  
tgngnaaatg ctaatcgant ttgtncgcac gacaagcgga ctttcattan ccgatgcacc 360  
gggttttaaa aaagctccag gtgggtgcac ctgntaatgt anctgggttg tatgctngtc 420  
cttgggtggg ttc 433

<210> 7080  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-103-Q1-E2-A11  
<400> 7080

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tccaccatt gttatctctg tagaagcgtg agagagatca cgcgtgttca ccgacacaat 120  
caaaatatgg cgaacggagc cgatagattg ggatctggac ggtaaaccga ttaagccgat 180

gacgatatgn nngatcgggtg ccggagggtt cattggctct catcncctgtg agaagcttat 240  
gacgngact cctcacaagg ttcttgcgct tgatgtttac aatgataaga tcaagcactt 300  
ggnttggagc cngnnaccgt tcaatgggct ggctgggntc cagtttcagc cgtancanca 360  
ttaaggcatg antctagacg tganggactg atcaacatgg cagatttgac ganaaatcta 420  
gctggcgatt cngttctcc 439

<210> 7081  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-103-Q1-E1-E8

<400> 7081

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tttatccgaa tttagggttt cagctcggtc tctcttctcc aattatcaga tccacgaaac 180  
tctacttttc ggatcaggtc tcagcttctc tatcgtttgc ccctcagatc aacaaagttt 240  
catgtctgaa cttgattccc aggtccctac tgccttcgac ccgtttgctg atgcgaatgc 300  
tgaggactca ggtgcaggaa caaaggagta cgttcatatt cgtgtccaag cagcggaatg 360  
gtaggaaaag cttgacaacg gtccaggggc tgaagaaaga gtacaacgac accaagatac 420  
ntaagggncc tcaagaaaag aantttgctg caanggnanc tgtgggttca aggactcagn 480  
actcggacag gggtattcaa cnttca 506

<210> 7082  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-100-Q1-E1-H11

<400> 7082

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acgccccacgc ccttgaccca agtcctccgg aaaaactcac tgccatgacg gactcactcg 180  
 caaaccttac atctcttgat gcaaattggtc aacccccctgg tccaccgttc tctaaaggca 240  
 gttattacca cccaagaggg atgttaaacy taatggagca cttcanancc anatacgggtg 300  
 accctttaat ctatgtcacc gataacggnt tcagtaacctc cgggtgggccc atacccttca 360  
 ccgaatcatt tcacgattac aaccggattg attatctctg cagtcactta tgttttctcc 420  
 gcaaggccat caangagaag cgtgtcaacy tnaaangata ctttgtntgg tctcctgggg 480  
 ataattacna ttctgcaac 499

<210> 7083  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-100-Q1-E1-H7  
 <400> 7083

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 atcaacttcg ccatcttcgt ttttgtttcg atcccaatcg agttttctct caatttgaga 120  
 aatgggttca ctgaaaaagg acggcgagat cggatatgag tttacggagg cgttactgta 180  
 cgттаacggc gttcgtagag tcttgccctga tggattggct catatgacac ttctcgaata 240  
 tctcagagat ttaggattga ccggtacaaa gctgggatgc ggccaagggtg gttgtggggc 300  
 ttgcacgggtg atgggtgtcta gttatgacag gaagtcaaag acctctgtgc antatgctgt 360  
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<210> 7084  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-B5  
 <400> 7084

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 agcagagaaa gctaaagaag cttttctaga tgatgacttc gatgttgctg ttgacttata 120

ctccaaagcc attgacttgg atcccaattg cgcgccttc ttcgccgatc gtgctcaggc 180  
 caacatcaaa atcgataact tcaactgaagc tgtttagat gcgaacaaag ccattgagtt 240  
 ggagccaacg ttggcaaaag cctatctcag aaagggcact gcttgtatga agctagaaga 300  
 atatagtact gctaaagcag ccttgaaaaa gggagcttct gttgcaccga atgaacaaaa 360  
 gtttaagaag atgatagatg aatgngatct tcgtattgca agaagaagaa gaaagattgg 420  
 gtcaancgat gccacc 436

<210> 7085  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-C2  
 <400> 7085

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 gtattgtcaa agggaagctc tctgtagact cagccgagca acgcctcgcg gggttatgtc 120  
 ctcttatgcc anaagaagtt ggtattcttt tacgagctta tggataactca tgggatacaa 180  
 tcatatatgt cgctggggga gaggtttttg gtgggcanag aacgttaatt cctttacatg 240  
 gtatgtttga gaatgtcgtt gaccgtactt ctctaagtac tanctgggag cttgctaaaa 300  
 tgtatggggc gtgaggcaaa gcataatgat atcaagaaaa tgacacctcc ttcgatcgag 360  
 gtagaaacga ngcatgattc attgaaaagc acaagacaag agacctcaac cgc 413

<210> 7086  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-C5  
 <400> 7086

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 atgcgtcaag ggaaagtgc gattctttgt ctcgttctca ccgtcatcgt cttacgtggc 180

anaatcggag cgggtaantt tggtagccg gagaaagata tgangagat ccgtgagcat 240  
 ttcttctaca cgggtaaacg cggcgagcct caccgtgtcc tcgtcgaggt ctcttccaaa 300  
 acgacgtcgt ccgaagacag gangaaatgg gggtaacagc tngganaccn tcgagtanca 360  
 anacggtatt cgttcatcaa aggagacgaa gngganagct cgaataccgg gg 412

<210> 7087  
 <211> 395  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-D2  
 <400> 7087

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 gagacacgat ttcattcaca atgggtcaaaa ggtatttgag tgggatcaaa ccctggaaga 120  
 agtgaacatg tacataactt tgccgcaaaa tgttcatcca aagtcattcc actgcaaaaat 180  
 ccagtcgaaa catatcgaag ttggcatcaa aggcaaccct ccctatctca atcacgatct 240  
 tagtgctcct gtgaagactg attgctcgtt ctggactcta gaggatgata taatgcacat 300  
 taccctgcag aanagggaga aanggcaaac atgggcatca ccgattctgg gacaggggtca 360  
 gttaggatcc ttacgccact gatcttgang cagaa 395

<210> 7088  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-D3  
 <400> 7088

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 cttggtagtt acaggaacaa gaaatgtcct cgaagttccc tctcgggtga cgcttcatca 120  
 ctcatctctt tcttgtact cgtctcgtt ccatgaattc tggcgccctt atctattcat 180  
 ttcgttccgt tctgttcta tccaaagcct ttccttttag gttaaagtac attggattag 240  
 gttcccggtt caacttttca acccgaccag agagatctca anccgaattc gcgcggcgaa 300

gtggagctgg aggaganatt cgcgcgtcca agagcttgat tgaggatgag gcagagctta 360  
gtgattgggt gagcgatttg cacggactaa gttcgttgcg cggggaagtt cancg 415

<210> 7089  
<211> 388  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-101-Q1-E1-D7  
  
<400> 7089

atcaatggtg gatgagctgg aagcaatggt agatgtggta gacccgcaac cgcaggggaa 60  
atcattgtcg atgagaagaa gaacatttga tatgccagac agtttgatcc gcanagaaat 120  
cgcagagggga gtgactcaga ttgtgcagat gcttgaaacg gaagaagaat gatggaatgg 180  
agcactgtgt gtttgtgact caggggctgt ttttgttgtt gtttgtgact gggaagaact 240  
gatcagcctc tttagtttga ttagtggttct gaatgtttct aattatgcag acaaaattaa 300  
taatgagagt ggcttgaaca agagattggt gtctcgctcg catcagtctc atctctcana 360  
ncntgggtccc tccttagtcc ggttnctg 388

<210> 7090  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-101-Q1-E1-F11  
  
<400> 7090

acgcgtccna acaaaagaag atccaaagat gagtgaagaa gcatatgaag aaactcagga 60  
atcaagtcaa tctcctcgtc cggttccaaa actgaacgag aggattctct caacactatc 120  
caggagatct gtatctgcac atccatggca cgaccttgag attggtcctg aagctccatt 180  
ggtcttcaat gtggtggttg agatcacaaa gggaagcaan gtgaaatatg aacncgacaa 240  
aaagaccggt cttatcaagg ttgaccggat cttgtactcc tccgttgttt anccacacaa 300  
ntacggattc ancccacggn cattgtgtga aggacaacga tcctcttgat gtcntgggtc 360  
cntatgcaag gaaccantgc ttcccnggat gtntcctcgg tgccata 407



<210> 7091  
 <211> 398  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-F3

<400> 7091

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gtgggttcgt cttcgacgac ggcaaattcg tggaagctgt ttcacgatt cgggcttcac 60
tgaagcggcg tcgctcgacg tttattattc cgacgactag gcctttgagg cagtttctga 120
ttaacttcag gcgataatgg caaacagaac agatccgttg gcaaagaata taagaggaac 180
gaatccgcag aatctggttag agaagattgt gcgaacgaag atttatcagc acaccttttg 240
gaaggagcag tgctttgggtc tcacggcgga gacattgggtg gacaaagcta tggagctcga 300
ccatctaggt ggtacctttg gtggtagccg caagcctact cgttccctt gcctcatatt 360
gaagatgctt caaatccagc ctgagaagag acanggca 398
```

<210> 7092  
 <211> 428  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-F4

<400> 7092

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tgagtgggat caaaccttag atatggcgga gaagcttgcg ccagagaaga gacacgattt 60
cattcacaat ggtcaaaagg tatttgagtg ggatcaaacc ctggaagaag tgaacatgta 120
cataactttg ccgccaaatg ttcattccaa gtcattccac tgcaaaatcc agtcgaaaca 180
tatcgaagtt ggcattcaaag gcaaccctcc ctatctcaat cactgatctta gtgctcctgt 240
gaagactgat tgctcgttct ggactctaga ggatgatata atgcacatta cctgcagaa 300
gagggagaaa gggcaaacat gggcatcacc gattctggga cagggtcagt tagatcctta 360
cgccactgat cttgagcaag aaacggctca tgctccaaaa gtttcaaaga agagaaaccg 420
ggattcna 428
```

<210> 7093

<211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-F6

<400> 7093

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ttttaccccg gccaggtacc gagtcaaaga attccccggg cgacccacgc gtccgcggac   60
gcgtggggcgt cgctgtcgct gtgtctctct ttctcactct gttccataga tctgagcttc  120
tatcaatatt ctcggatcgc tatcagtcaa atcttaagaa ttctgtcgct ttagctcaat  180
tcggattgtg gaggaagttt taggatttga tctccatctc gtatccaagc atggttgctc  240
ctgtgcctcc aggggcacct agaccaaca gccagcaaaa ttccggggcca cctaatttct  300
acccgggttc acaagggaac tcaaattgctt tagccgacaa tatgcagaac ttgagcttga  360
atcgaccacc tccgatgatg cctggctcag gtcctagacc acctcctct tttggtcagt  420
caccanange ctttctctca gcaatcccct tcntatggag ctccgcaacg tngggccttc  480
aag                                                                    483
  
```

<210> 7094  
 <211> 405  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-F8

<400> 7094

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acgcgtccga aaaaaaagtg ttactttttt gggttcctct tcggtgggtt cactacacta   60
gtaacatctc tgaacctgtt ctctgtctct cagcagcaaa acctcgaggc ttctttttct  120
ttcattctct caattttctt tctctgatct gaattctcgc cgagtgaatc tagaaccagg  180
caagctccaa ttaggtttta ggttttcaag cactctgttt ccaatgctgc ttccgagatg  240
gtttgcagaa gcgttggtgc tccnactttc aattcttgcc tgttcaaacg ctgcatttat  300
cgggtgtaaac attggcactg atctcaccaa catgccaccg ccttcagaca ttgtnacact  360
tctcaaatca caanaagtca cacacgtccg tctctatgat gctna                    405
  
```

<210> 7095

<211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-G2

<400> 7095

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ggagaggaga ctgtcttaat cgtttccggg tctcttattc tgatccattc ntctctcaag   60
atctaagatt tactgatttt gaagtggaga agaaattagt tgtctcgaca aaccccacta  120
gaaactttgt ttagtgtgtc ttcttaaagc ctgcaagatg cagagaccac ctctgaaga  180
tttctccttg aaggagacga gacctcatct aggtggagga aaactctctg cgnnataagc  240
ttaccagtac ttatgacctt gttgagcaaa tgcantatct ctatgttcgt gtgggtaagg  300
caaaggagtt acctggcagn ngatatgact ggtangttgt nacccttatg ttgagggttaa  360
gcntgggaac tacgaangca ncancaangn nttcnagaag gaatcgnatc ctggagtggg  420
acaagnt                                         427
  
```

<210> 7096  
 <211> 381  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-101-Q1-E1-G4

<400> 7096

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aagcacattg ctgaagaaat agacgagaat tctccaacct tttcagatgg tgtgcccaag   60
gaaggactta gaatagaaga tgttctagtc agaattgctc ttctgatacn agttcaggag  120
aaggtgaaat ttgtagaaga tcatccaggg aaacctgttt tcccctctcg cattcttgaa  180
agattccccg gactganaag tggnaaaatt tgggaaggagg aacatgacaa gataatgata  240
cgtgctgttt taaagcatgg gtacggacgg tggcaagcta ntgttgatga caaagagttg  300
gggatccaag agcttatctg caaanaattg aatttccctc acataangtt tgtctgctgc  360
tgaacaagct ggnttcagg g                                         381
  
```

<210> 7097  
 <211> 413  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-100-Q1-E1-G7

<400> 7097

aatgccaaga ccaagagttt cagagttgtc tcagaggcaa gctccaaggc tgaggtcac 60  
gtcatctact tctgattcca atcattccaa cgtctgac actacggac aaagttttta 120  
gcccgggtgtt gaccgtaa atcctcgaag cgggtggacct aacagtgatc cgcttggtca 180  
gaagaaactt gggggacgaa tatcggtatc agagtcgcag ttaggacaag cgcaagagga 240  
actgagattg ctcaaggagc agttggctaa tgctgaagct gtgaagaaac angctcaaga 300  
tgagcttcat aaagaagtcc aangaaacca aanccgctgg gctcgagtgg angaatccng 360  
caactgaagg ctganaagga tttgatagag acgaaatncc ctggttaatg ttg 413

<210> 7098

<211> 467

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-099-Q1-E1-E11

<400> 7098

acgcgtccgc tttgtttatc ttagggtttg tagataaagg aagaagatcg ttgtggcaaa 60  
gaatgaaatc gatggctccg acggcgacgc tggacaacaa tgaggagctc cggcgactca 120  
gggagggttaa tattgacgaa gctccggggc gtcgtcgtgt tcgtgattcc ttgaaagata 180  
ttcagcttaa tctcgatcat atcctcttca agacaccaga aaatgggatt aagacaaagg 240  
agtcttttga ggtgaattcg agaggagttg agattttctc taaaagctgg cttcctgaag 300  
cttctaagcc tagagctttg gtttgtttct gccatgggta tggagatact tgcacatttt 360  
tcttcgaang aattgcaagg agattggcat tgtctggata tggaagtttt cgctatggat 420  
tatccgggga ttcggcttat cagagggctt gcatggttat atcccct 467

<210> 7099

<211> 488

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-099-Q1-E1-F4

<400> 7099

gtccganatc cccgggtcgac ccacgcgtcc ggaaaaagcc tacggttggt ctgttccttt 60  
 caatctcacc aaattttcat cttcaccttc anttttgata gattctcttc accgaaccaa 120  
 atccgtaacc ctagcttctt cntaaattat anagaaanag agttaattcg aatctggatg 180  
 aaattgggtt tgtctacatg gaaatctaga tgtgtctgat tccgaaatct gagtctgaga 240  
 gatgctagga gcgattcatt tgggagatt agcagcttgt ttcttctctt tcgttcccat 300  
 ggcaatggct ggttggcatc tgagcaggaa caagatgctc ttcttttagtg gcgctttggt 360  
 tatttctctc gcggtttgtg ttcatctcac gccttatttc ccttcccggt tttccgacat 420  
 cgttgccctc ctgtttcctc cngttgttgt ccaaggatta accgtatcct cttgtatcaa 480  
 acgagggt 488

<210> 7100  
 <211> 510  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-099-Q1-E1-F6

<400> 7100

ggaactgttc tcgcctgcgc ntaccgggtcc ganaattccc gggtcgnccc acgcgtccgg 60  
 canaagcaat ggtggatgca gctataaagg ctgcatcatc tgtgaatgaa ggggaagatg 120  
 tgaacacaat gatccaagaa gccttagagt tggttggcaa aaatcagcta ttacgcagct 180  
 ctatgggtcaa acatcangan catntaaatg gcagtataga gcatcatcac aacctatctc 240  
 cttcaaattg atcanagcct gtggctaaca acgatttaaa ctcacaanat ggttcanaga 300  
 aaaacgctca aatgccttca gagcttatca cctcctgtgt tgccacttgg ctcattatc 360  
 agatgtgcnc ggagaagaca gtacctcca nctgatgtcg cacagcttat aagacgcagc 420  
 aagtcacang cttgcaacca cnatgencac ataanctacc gatttaacag anganatccg 480  
 gacgtgcatg gggaacggat taangactca 510

<210> 7101

<211> 515  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-099-Q1-E1-G10

<400> 7101

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gggaatgttt ccctggnccc tgtttncgg ggccccgggt cgacanaacg cgtccgggca 60
cgcgccgggc ataaangaag anatcanatg agagtcctca tgtgtatgca attgcagata 120
cagcaattcg cgaantgata cgcgatgaag ttaaccaatc tatcattatc agcggcgaga 180
gtggagcagg gaaaactgag actgctaana tagctatgca atacttgggt gctcttgagg 240
gcggaagcgg gatcgantat gagatactta agactaatcc cattttggaa gcatttggaa 300
atgcaaaaac attgagaaat gataattcta gtcgttttgg gaagctaata gagattcatt 360
ttagtgaaag tgggnaagat atcgggtgct caaattcaan cctttttact agaaaagtct 420
agagtgtgcc aatgtgctga angggaaagg tcatntcnta ttttttanca actttgtgct 480
ggggcttcac ctgcacttag agagaangcc aaatc 515

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<210> 7102  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-099-Q1-E1-G4

<400> 7102

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gcttctccca naggctaatc atggacgctg tggcggcgaa tttgtttcaa tctccttctt 120
tactgcgtca aacttccgaa aggttgatat tttcgacgcc caactgtcct ggcttcatgc 180
gaattagctc cggacctcaa tttcgtctca gacaaaactc ttctcttaa ttctcgagac 240
catttcaaag cggaacaact tgtgttaa atctcgagaag ctttgtgggt aaagcttcag 300
cttctgggtg atgcttcaac agaataatc gcgccgttc agttgaagtc tctgtggga 360
cagtttctgt cacagatatt aagtgagcna tccgtcatct tgttcnagca gnetgttgaa 420
cagcagcttg annangctcc aagattgatt cgagacgctg aaagannaag ngttaagatt 480

```

gnatcctctg tccttggga

499

<210> 7103  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-099-Q1-E1-H1  
  
<400> 7103

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cacaggaagt ttgagcacc c aagacatggt tctcttggtt tccttccaat gaagagagct 120  
aaccgtcaca gacgaaangt gaangcgttc cctaangatg accaaaccan gccttgcaag 180  
ttcacagctt tcanggggta caaagctggt atgactcaca ttgtcagaga agtggagaan 240  
cctggatcca agcttcacaa gaagganaca tgtgaggctg ttaccatcat tgagacacct 300  
gctatggtgg ttgttgaggt tgttgccat gtgaaaactc ctagangttt gaggtccttg 360  
aacaccgtcn gggcacangc aatttgangt taaggaagtc aaggncaaag gtctacaaga 420  
antggggcta aatncnaaga agaaggnttt caactggggtt accctaa 467

<210> 7104  
<211> 510  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-099-Q1-E1-H12  
  
<400> 7104

cggttccngg cctacttttc gtgncccagg gtcgganaat gcgtcgggnc ncgcgtccga 60  
ttcaacagag gtttttgata ttggagggaa tcggtaacgg gcatggaagc cactgatcca 120  
agcgcagaga tcgagctcta caccattcct gctcaatcca gttgggttctt atgggatgat 180  
atacacgaaa ttgaaagacg cgagtttgcg gagttcttca ctgagagctc aatcactaga 240  
acccccaaag tttaacangga gtaccgagnt ttcattatca ataagtttag agaggacact 300  
tgtcggagac tcaccttcac cagtgtccgc angtttcttg ttggcgatgt caatttgctc 360  
caganagttt ttctcttctt ccgaaaaatg gggattgatc aatttttagct cttccctgan 420

gaanaaatga ccactntatt gtccgtggat aatgctnaaa tngaacaagg gactcctgct 480  
 tggcnattcnn gttactggca acccctaant 510

<210> 7105  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-100-Q1-E1-A12  
 <400> 7105

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnccg 120  
 ctggacgtcg aaacaacctg cctcgtccaa acctcagaag acgatgtaag gtcaccgctt 180  
 cacgggctaa tattgaacaa gaaggtaaca cagtgaaga acccattcag aatattaaag 240  
 taaagggata cataacggcc caagaagagt ttctggaggg cataacttgg tcgagaggtc 300  
 tcgatgacat tgctgatata cgcggaaga tnattgctcg tcgagcttat tagcgccaag 360  
 actgaccagc ggattacggt agaagactac gcacaacgtg tatgggccga agccccgat 420  
 gagaagtacg agtgcgagtt tgagatgcct gaagactttg gaccagtgg 469

<210> 7106  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-100-Q1-E1-B8  
 <400> 7106

gcaaataacg aaaaccatgg atccgaaacc aacctcgatg tggagctcaa ttgtgaagaa 60  
 agatccacct tcaaagcctc cggttaacga cggagctccg gcagcgattc tcgggatggt 120  
 cggaaactgc aaatccacaa aaggaatatc tattgcggtt gttgacgcca acgccatcat 180  
 tgaaggacgt cagagcttaa caaacttcgc cgacaaattc gtaactgtcc ctgaggttct 240  
 ctctgagatt cgtgaccctg cttctcgccg tcgtctcgct ttcattccctt tcaactattga 300  
 taccatggaa cttctcctg aatctctaag taaagttatc aaatttgcaa gagctactgg 360  
 tgatttgcaa tctctgtctg atgttgatct gaagttgatt gctttgtcat acacgcttga 420



ggg

423

<210> 7107  
<211> 492  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-100-Q1-E1-C9  
  
<400> 7107

actgncccg catcccgat cgnccacgc gtccggctnc ttcttcntca anatctctct 60  
cttcancaaa tcttcagaat atgancaacg acaaggntag cttcnacgtc tccgatctta 120  
ctgctgctct taaggactag gatcganctg gccttgctca tgctctaaag aacangctgc 180  
agaatctggc tggtcagcgt tctgatgtgc tctagaatct gactcccaat gtgagaaagc 240  
gcgttgatgc cttgagggat atacagagcc aanatgatga actanaggca aaattccgtg 300  
aggagagAAC tattcttgan gccAagtatc aaacgctgta tcangccttt gtatgtcaag 360  
cgttatgaga ttgtgaatgg cactactgaa tttgaactgg ctccagacga tgataccaat 420  
gtgnaccaan gagangagaa aactgcagaa ganaaaggag ttccaagttt ctggctgaca 480  
gctctgaaaa at 492

<210> 7108  
<211> 354  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-100-Q1-E1-D6  
  
<400> 7108

acttcgcccc ggccggtacc aagtccaaaa attcccgggt cgacccacgc gtccggtgac 60  
ccgtgtgggg acaataagtt ggtggaacac tggctcggcc cacgggtcgg atctgttgtg 120  
gcattgttcc gggctgcccc gtccaagctg agagtgatcc gtgtgtgtta agcgaaggct 180  
tggctcaggc ggttcttgca gtggagggca atgcgtgagg ctggtttcac agagcaagcg 240  
atcacctccc gctctcagca gtggacggat cacagctcga cgccactcag attcaccatg 300  
gcctgctggc tcgttcccag ctggaccacc aatttttgaa aaaaaaaaaa aaag 354

<210> 7109  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-100-Q1-E1-E1

<400> 7109

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cgatctagta gtcacgcgac tccgccgtcg attacatggc ttctnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ttcgccacgt 120
caccaaactg ctgcaacaaa tccaaccacc cttctccgcc gccagcggag gataatcttc 180
tccatctcgt cgctacttac ctccaaaatc atcaacaaga aactcaatgc tcctgcgaga 240
cttcttgtca aaacttcaat gttattagaa gtcagaaccg tgttttgcgt cagcataaga 300
atgttccacg agaatacgac caagttgttc tgtcttgtct tctccgcaaa atcgatgatc 360
ttgaatcttc actcaacaag ttttcatcnt tccatgacaa aagtccaaat tgaaac 416
```

<210> 7110  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-100-Q1-E1-G1

<400> 7110

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aacttttacg ctgccccgtg cccgtccana aattaacggg tcnaccacg cgtccgntca 60
caaatcgtgt catcactttg tgggtatang cccctgaat tgttacttgg tgcaactaaa 120
tatggaccag cgattgacat gtggtcagtt ggatgcatat ttgctgaact tttgaatgga 180
aaaccaatct tgcctgggaa aactgagaat gaacaattga ataagattta tgagctttgt 240
ggatcacctg atgaaagcaa ctggcctgga gtttccaaga tgccttggtg taaccaaata 300
aaatcatctc ggcccttaaa gagacgcgta agggagatct acagacactt tgatcgccat 360
gcccttgaac tacttgagaa aatgttggtg cttgacccat ctcaagagaa tatgcgcaaa 420
ggatgctctt gatgctgagt acttttggac tgattcgctg ccangtgatt caaagag 477
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<210> 7111

<211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-099-Q1-E1-D7

<400> 7111

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ctgcttttgg aatcattata gtgataagag gagatggcgg atataacaga atatctagag 120
agatcgatgc agaattgttc acttattgat cggagaagta gtatgggaga tggatttggt 180
atgagcgatg aacatatccc gatctcagat agattcttgg agctcagttc tcacttctct 240
gttccttctc atttgaaca gtgtcttgat cttaagacag gagagattta ctacagaagc 300
tggaatagtg gaatgagagt gaaagaagat ccgagaaaat cgatgagtcg tggtaactat 360
gcagaccaat ccaagtgggtg aatcgtctgg aacagttttt tcatcagaag aagttagctc 420
ggattatga aagcgaagag tctcatcag agtcgtcncc ttcatacanga aagtatcaca 480
aagaggaaca ggaca 495
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<210> 7112  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-097-Q1-E1-G5

<400> 7112

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atgacgtgct tctcttctgc tactctcat cgccatcac ttctactttc ttctccatct 120
acttccaaat ccctgcttcg atttccctca tcttatctga aacctagccc cagtcttctc 180
ttccatgggt catctcgtc tctctctctc tggtcagacg gcagcaacaa ccgtctctct 240
ccctccgggtg acaccgtccc aaataacttc tgtatcattg agggatcaga gacagttcaa 300
gactttgtgc agatgcagct tcaggaaatc caagataaca taaggagtag acgcaataag 360
atatttctcc tcatggagga agtgaggaag ttacgtgtgc aacaacgtat caagagtgtt 420
aaagccatca atgaggacag tnagctcnaa ggtaccgaga tgcctgagat tacatcctcc 480
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aantc

485

<210> 7113  
<211> 398  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-097-Q1-E1-G8

<400> 7113

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atcccagagc atctggtaat cgggttgatg gtgcagcttc cccgtcagct accacaggct 120  
atgtcacaaa gctagctgct gccccagctc ctgtaccga tctgctaggt gacctaatgg 180  
ggtcagataa tgctgcaatc gtccctgtag atgaaccac aactccgtca ggctgtccac 240  
tgcctgttgt cctaccagca tcaaagggc aaggtctgca gattagcgct caattaaccc 300  
gacaagatgg tcaagtattc tacagtatgc tcctcgagaa caactcgcag tcacttcttg 360  
atggcttcat gattcagttc aacaaaaact cattcggc 398

<210> 7114  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-097-Q1-E1-G9

<400> 7114

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aaattttgaa actaatcatc tctctctttt tttcaaacat acacagagaa tgggtgggat 120  
tcgaaaaccc ctgcgaaaac caaattgtta gattcgtctt cgatttctaa tgtcagagtc 180  
gtccttaggg ttcgtctttt tcttccccgg gagatttcgg acgagagttg tgacgggaga 240  
tcgtgcgttt ccgtaatcgg cggcgatgga ggagatacca gcgaagtggc ggtttacctc 300  
aaagatccag atagctgtcg taacgaaagc tatcagctgg gatgcgtttt acgggagaga 360  
ggatgataat gtgaagcata tattcgatag agaagtaagc cctttgattc ctgggatctt 420  
tcatggtttc aatgctactg tgcttgctta tgggagccac cggaagcgga aagactttta 480  
cgatgcangg aatcgatgag ctacca 506

<210> 7115  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-097-Q1-E1-H12

<400> 7115

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 ctctttgttc aaggaggtagc ttgattacac agaattcaat gatgtggaca tggtcactag 120  
 aggcagtgat tgaaaacatt caattgaaac aagacatatt caaagaaatc gaaaagggtt 180  
 gttcacccca ctgcattttg gcgagtaata catctactat cgacctcgat gtnattgggtg 240  
 anaagactaa ctcaaaagat cgcattgttg gcgcacatct cttcagtcng gcccatctga 300  
 tgccccttct cgagattggt cgttcaaaga atacttctgc tcagggtgatt ctgggatctc 360  
 atggcggttg gaaaggccat aaagaaagt cccgtgggtg ttgggaactg cataggcttt 420  
 gcagtgaata nganattctt tccttaagtc acaagctgca catatgttgg ncaatc 476

<210> 7116  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-097-Q1-E1-H7

<400> 7116

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 cggacgcgtg ggcggacgcg tgggaggacg cgtgggcgga cgcgtgggcg gacgcgtggg 120  
 aaagtttatg tcaatctagc ttacaacaac ttgagtggac caatcccaca aaccggtgct 180  
 ttggtgaaca gaggaccaac tgcattcttg gggaatccaa gactctgtgg ccctccattg 240  
 aaggatcctt gtttgccaga tacggatagt tcttcaactt ctcacccttt tgtaccggat 300  
 aacaacgagc aaggtggagg agggtaaag aaaggagaag gtttaagtaa aactgctatt 360  
 gttgcaattg tggtttgtga tttcattgga atctgcattg tgggatttct cttctcttgt 420  
 tgttacttga agatttgtgc acgtcgtaat agtgtggatg aggaaggcta tgtgttggag 480

aaagaaggga aaga

494

<210> 7117  
<211> 452  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-097-Q1-E1-H8  
  
<400> 7117

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agacgaagaa gacgaagtaa cactgataga aaccctagtt ttttttttaa atccgtcgag 120  
gcgtaatgtc gtcggagctg cagatttcgc cggcgattca cgacccgcaa ggtcaagaga 180  
agcagcagca agccgccgga gtcgggattt tgcttcagat catgatgctt gtcctctctt 240  
ttgtactcgg tcatgtcctt cgccgtcata agttctatta tctacctgaa gctagtgtt 300  
ctcttctaata tgggctgata gttgggtggt taacgaacat ctggaacacg gagactagca 360  
taaggacatg gntcaatttc cacgatgaag ttcttcnttc tgtttccgct gcttcccatc 420  
atattccagt caggnttcag ttacaaacct aa 452

<210> 7118  
<211> 447  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-099-Q1-E1-A1  
  
<400> 7118

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tgaggaggcct ggttatggtg atgaaaggcc tcatggtcgc tttatgggtc gctatcagga 120  
ctgggagggga ggacgtggag gttatggtga tgcttccaac agtggaaatc ctcaaaggga 180  
tggtatgatg tcatacaaac aatttatcca ggagttggaa gatgatatat tgccatctga 240  
agctgaacgc agatatcaag aatacaagtc agagtatc acaacacaaa aactgccttt 300  
tttaacaccc acaaaganga agactgggtg aaaaataagt ncatccaaca aacttactat 360  
cctgtcatag aaaggaggaa tgaaccttgc acaagaangg tggcaaaagg atttccttaa 420

cttganttac aaaagccggg aacacta

447

<210> 7119  
<211> 508  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-099-Q1-E1-A5  
  
<400> 7119

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tcctaactctg tacggttctt atttcgaaag ggtaaaaacc aaaagcgacg caaagggcaa 120  
aatcggaaaa agtggtttat ttatggccgc cgtagtagt tcgtcggaga ccggagactg 180  
cggcgttacg ggaaagagag atgagatcat gttgttcgga gttagagtcg tggttgatcc 240  
gatgagaaaag tgtgtgagtt tgaacaatct ctctgattat gaaaagtctt ctccggatga 300  
tgagatccct aagatagtca ccgccggang ctggagatgg gtgaanatna naacnanacg 360  
ggatgcgacg gtgatttgct gctnacggtt acacctccgc caatgacgcn gtcanatttc 420  
gncgtcnccn ggcnngaagg aaaccnnggg gtnccatgg acttagaacg aaccataaca 480  
anggtccttg agtgggtttg cccnaac 508

<210> 7120  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-099-Q1-E1-B12  
  
<400> 7120

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caaaaaaaaa cttagttgac tgagaaaact aagcaaaaag atctccgac ggaatcttcn 120  
tattcgccat ggatgctctt tctcaggcga tcagttccgg gatctccgtt ccttacaaga 180  
acaattcttc ttctctcggt ccttctcag gactcacctc cttaatctc cggaatcga 240  
gatctccggt gaatccctca tcacgatctc gcgtctcggg gcgagcttcg gagattcaac 300  
acagcaaaac ctcagcttca tcgatcgatc tcancgatcc agattggaaa ttacantatg 360

agaaagattt cgagcaacga ttcagcatac ctcagaanac tgatgtctta cctgatgctg 420  
aaagccattc gtncancgtt ntgtcttaag nagaggctccc cga 463

<210> 7121  
<211> 508  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-099-Q1-E1-C2  
<400> 7121

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tccgaagcaa tccaaccgaa ccgactcaga gcttttgagt cttctaaatc tctatcgaat 120  
ttttctaggg ttagggctcc tgatcgattt cgcgagctct gcgattattt taagtattag 180  
gatccgaaat tagaaatggg tggagaggga gattcaagtc agccgcagag tggatgaagga 240  
gaagctgtgg ctgtgaacat cagggtgctct aatggcacga aatttagtgt gaagacgagt 300  
ctcgattcaa cgggtggagtc tttcaaagag ttggtggctc agagcagcga tgttccagct 360  
aatcagcagc gcttgattta caagggtcgt atcctcaagg acgattaaaa ctctcctcaa 420  
gctaagggtt gcaaggctga ttacaccatt catatgggtta naaggctctg caaccttcct 480  
caacaccact cctgctcccg gccgcaaa 508

<210> 7122  
<211> 498  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-099-Q1-E1-D10  
<400> 7122

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tataaaggct gcatcatctg tgaaggaagg ggaanatntg aacacaatga tccaagaagc 120  
cttagagttg gttggcaaaa atcagctatt acgcagctct atggtcaaac atcacgagca 180  
tgtaaattggc agtatagagc atcatcacia cccatctccn tcaaatggat nagagcctgt 240  
ggcnaacaac gatttaaact cacaagatgg ttcagagaaa aacgctcaaa tgccttcana 300



gcttatcanc tcctgtgttg ccacttggcn catgattcag atgtgcacgg agagacagta 360  
 nctccagctg atgtcgaca agcttaannc acgcagcant cacaagcttn cagccacgat 420  
 tccccangn anctanccga tttacagaga aantccaaaa cttcatggg gacggnttaa 480  
 agactcaaaa caangtcc 498

<210> 7123  
 <211> 489  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-099-Q1-E1-D3  
 <400> 7123

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 cttcttcttc ctctcaagta tcgaaaccga aacagagaaa catcaccacc aatgggatgt 120  
 tttatgggtt gtttcggtct ctctccaac aaaaaacgca gaaattccat taggaagatc 180  
 cttcctcgag atcaaagaat ctgtagctat gagccgctgc tttcttcaga tccgacagat 240  
 ttcagtactg tttcagataa ccctgaaaag atctcaaatt cgaacctcnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntttga 360  
 cttgaatgta caaacctatg ancctattgt ancttcanga tatgagaatg cttngcagtg 420  
 atgatgnaag aggggaaagg gaggaaggag ccaggggatc ttcggntata gatagnghaa 480  
 ccagaggga 489

<210> 7124  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-099-Q1-E1-D6  
 <400> 7124

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 cggacgcgtg ggctttctct ctccatgaga actctaattc ctcaccggca atgtgtgacg 120  
 tcaccgtttc ttatctccgc cgcattccca ccgtttcctg gccggtgctt taagttatcc 180

tcctttactc ctccacgtca taggcgtttt tcttctctct cgatcagaaa catttcgcat 240  
 gaatccgccg atcagacttc ttcttctagg ccgcgaactc tttatcctgg tggttacaag 300  
 cgtcccgaac tcgccgttcc cggtttactt ctccggctag angccgacga ggttatgagc 360  
 gggaatcgtg aagagactct tgatttggtc gaccgtgctt tagctaaatc ggttcaanat 420  
 cgtcgtgatt gaanggcgga accaccgctg gtaagctcta cgaagcggcn tgtttgctna 480  
 aaatcacgtt gtcanaaggc 500

<210> 7125  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-097-Q1-E1-G12

<400> 7125

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 cgcttgggag atcttttcta ccgcttagtg tttcagaant ttgaagatcc agctgagggg 180  
 gaagatacac ttgtagccaa attcaagaaa ctgtaataat gatctgactt ctggagaacg 240  
 cgccttggaa gatggcnactc gagaagcaag cagttttcag aaatcggaag tattcgagca 300  
 tcgagcatca tcacagtggg gtaatgatga gtccatgaat ccaggttttg agcccgaaa 360  
 aaataagtgg ttgttgatgat atatgttctc gtttcctctc ttcattgattt catttatattg 420  
 ttggtgtaca gacaaaagga atattaactc ttacgacaag gttcaaaaag gttaaatatt 480  
 ctcacaa 487

<210> 7126  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-096-Q1-E1-A2

<400> 7126

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ttttaagagct aagagccaag aagcttggtt tgggaactgc atatattcat ggtttgaagc 120  
 atgctacggg tgatttcgtc gtgatcatgg atgctgatct ttcacatcat ccaaaatact 180  
 taccaagttt catcaagaaa caactagaga caaatgcaag tatagtaact ggtacacgat 240  
 atgtaaaagg tgggtggtgta cacgggtgga atcttatgcg gaaactcact agtagaggag 300  
 caaatgtgct agctcaaaca cttttatggc ctggtgtatc tgatttaaca ggatcattcc 360  
 ggctatacaa gaaatcggcg cttgaagacc tgattagctc atgtgtgagt aaanggtatg 420  
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<210> 7127  
 <211> 465  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-096-Q1-E1-A5  
  
 <400> 7127

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 aatcgcatTT ctagggtttc tttctctacg attcaataga ttccggacgaa ttgggggatt 120  
 ctgaccagag agaagctatg gaggaaaacg aagaggaaga agaattgcgg ccaacggcgc 180  
 tatacacggt cgggtggttca gacgaattta cctttgtttc tcccgatggg ctctccggtc 240  
 aatacacggg ccctgatcac gacggcgTan ttcttcagac tgaaaatccg gcgccgacta 300  
 actgtcttgc ttactacttc gaggttcata tcatgaatgc tggtgaaaaa ggagagatcg 360  
 cgattggttt ctccaaggaa cacatctata ancaaangat atactgtcag aagctgtgcc 420  
 tacattggta acagtggact catatgctct caaaatggag atggT 465

<210> 7128  
 <211> 400  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-096-Q1-E1-A6  
  
 <400> 7128

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 gcgatgttca tcttcagagt tcattccgtt gactccgaga gaccaatctc cgttgaagaa 120

gaagaatcag gtttactta cgcacgaaa agagctcagc ctctctttaa actcatacaa 180  
ccatctctca aactcaccga ccgcaaaggc ttgatccatc tctatcgcaa atcttcacat 240  
agctctctgc ctaaccctag ctcccgatcc accactctct tcatcgctgc tgttcccaat 300  
tatctctcct ctctcgattt tatccgtttc tgtgattccc gcatctccca agtctccgac 360  
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<210> 7129  
<211> 394  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-096-Q1-E1-A9

<400> 7129

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aacgatttag atttaatcgg gaaaaagttc agtcagtgc actaatgttc gaatcgaaca 120  
tggtttcttca aacactatct tcttcttctc ctccaattca ccgtctctat cttcaccatt 180  
ctcagattct ccttcttctt gggtcaccca gcaagatttc tcttcaggca gatacatgga 240  
aggactttgg ccattcgatc ttttcatgaa atttctgcna gaggtttacc ggntttgaac 300  
aaagcttctt tgaagaagct accaatcaaa ggatctacct ttctgctggg gcaaancttg 360  
ttgatgggtt ctgtcacccc acagttggna gcaa 394

<210> 7130  
<211> 470  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-096-Q1-E1-B4

<400> 7130

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cggaatctca aaacgatgaa tctcagacaa tcttctccac tctcttctcc ggcgagggtg 180  
aaagctctgg ctttgcgagt ctcttctccg ctgataaccc tttccggcga aaacaacctc 240

aagaaatcaa agagtcgtca attcctnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
 nnnngcttac agattccggc gacgaagaaa gagacgattt cggaggctgt agaagaaagt 420  
 gggttggttt caaagaggaa caagaggaaa gagagatgag attgagaacg 470

<210> 7131  
 <211> 403  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-096-Q1-E1-B8  
 <400> 7131

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 gaccgagaag agagtaagat atgtccggcg catcgtctga ggatagcagt attttcgctc 120  
 gctgtgaaga cgtagactgt aacaagaaaa tacctgtaga gcttgtaagg atgcacattt 180  
 gttatgctat gttccatagg actctggcag ctcgagggtt tgggacacaa actcaggcta 240  
 agaagaaacc tacaacaag aagaagtcaa caacatctct taccgatttt gctgtcttca 300  
 tgaatcattt ccgtaaactt tttagaacag attataatgg tgcattgggtg aaagaagggt 360  
 caaagatcgg ttgggaaatg tggaagtcta tgactgagga tga 403

<210> 7132  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-096-Q1-E1-C10  
 <400> 7132

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 ccangcttct caaagcttta gctcagagag caaaattctc tcaagcttta gccatgtctg 120  
 cctctgcttc ttccctctcn gctttcaggc ctaaatcgct tctctctgct gtctccagac 180  
 ncgcttccgt ctccgtctta cctccttcnc tctccttcaa acttcantcc gaccacctcg 240  
 tctctatctt cgcttcttcc gccctcaaat gctcatcccc cgcgagtagc ccgtcgcgtt 300

tcgttagaaa cgttgctgta tcttcggatt ttgaggtgga ggaagatgat angttcgctg 360  
acnngnacga ttcagcgctt gtggagcgtn antccttctc tcctggagct taagctcttt 420  
gttggggacc nttccgt 437

<210> 7133  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-096-Q1-E1-C4  
<400> 7133

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aaaagagaag aagaagattg cttcaatgag ctgggtgtag tgtcaaattg tgatgctact 120  
gaatctgtaa gcacggaaat attggaatct atgaacattg gttgtagtca aggtcttaaa 180  
gattctggaa acataagacc acagaacaac attctaggat gttgtagtaa tgctgtagag 240  
aattttaata gagtcggaga aactgaaagg agtgatgac ttgaacatct cacactgaag 300  
gagcggcgca aaatgcttct tgaaaggggt gctataaggt tgctgaatc taacgtagag 360  
gataaactg aagattgcga tgaaactgaa cttataaaa taaaagcgga gatttcatgc 420  
gaaaatggga tagcttcgtc ttctggagtc caattcagcg gctttctana g 471

<210> 7134  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-096-Q1-E1-C7  
<400> 7134

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ttcctttccc ttctgttoga cttcttctct tttcttcttc tacattccta tggcgggagg 180  
agatggtcag gtgtctcatt cgcttgagaa gcagttcgag agtttccgtg ttcaattgga 240  
agaatctgca gctttgagag agcagattcg tgctgtgggt atggagattg agtctgctac 300

taggcttatt caagctaatt ttcttctcgt tcatcaatcg cgtcctattc ctgaggttat 360  
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<210> 7135  
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 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-096-Q1-E1-C9  
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 cgcaaggcag cttcagcctt gccttgccgc gattacggga ggaggacaac cctcaggtgc 180  
 atgttgtgca aagcttacag agcaacagtc atgcctctgt ggtttcgcta agaaccctgc 240  
 gttcgcacag tacattagct ctccaaacgc tcgcaaagtg ctccttgctt gcaatgttgc 300  
 ttatcccact tggtgaaact tatctagaga tttataaat aaataaacga aaggaaataa 360  
 attacattat atcaaacgtt atgatacaat tcaaccgttt gggttaatgt a 411

<210> 7136  
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 <212> DNA  
 <213> Arabidopsis thaliana  
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 taaggacgag gatcgagctg gccttgtcaa tgctctaaag aacaagctgc agaatctggc 180  
 tggtcagcgt tctgatgtgc tcgagaatct gactcccaat gtgagaaanc gcgttgatgc 240  
 cttgagggat atacagagcc aacatgatga actagaggca aaattccgtg aggagagagc 300  
 tattcttgaa gccaagtatc aaacgctgta tcagccttg tatgtcaagc gttatgagat 360  
 tgtgaatggc actactgaag ttgaactggg ctccagagga tgatancaac ggtnggaccn 420

aaggagaaga ngnaaaactg tngaagcaga aaag

454

<210> 7137  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-096-Q1-E1-D6  
  
<400> 7137

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atgagatcag gagtcccaaa gaccgtaaaa gcaactcaga aattgttgag cttatggaac 180  
agaatcaaag actacctagc tgatccaaga atgggggccta cattgcttct aggagcgttg 240  
ttatctgcag gcaatgtttg gtggatgaga agccgatcat caacacaaca acctgctcag 300  
acaaatcagc catcaccaaa tcaaccaagc cgataacgtn nnnnnnnnnn nnnnnnnnnn 360  
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<210> 7138  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-096-Q1-E1-D8  
  
<400> 7138

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cggaagctat gggaaggaac taaacaactt agaaatctca agtggatgga tttgagttat 180  
tctagttatc tgaaagagct tcccaatctt tcaactgcaa ctaatctcga agaattaaag 240  
cttagaaatt gctcaagttt agtggagctc ccctcctcta ttgaaaaact cactgagctc 300  
caaataattaa gatcttgaaa attgttcgag tcttgagaag ctccccgcta tcgagaatgc 360  
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<210> 7139



<211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-096-Q1-E1-E1

<400> 7139

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ttttgattag aaatggcttt agctgttacn ttttttcaa ctgcaatctc tggatcgagt 180
ttctctcggt ctggagcttc ttctgaatct aaagctcttc aaatatgttc gattagggtta 240
tctgatcgaa ccattttgtc tcagagacgt tactctatga aacctttaaa cgctgagtca 300
cattcacgaa gcgaatcttg gggtactcgt gtttcaactc taattgctcc tgaagttgaa 360
gagaaaggag gagaagttga agactttgag caacttgcta aaaagcttga agatgcttct 420
ccacttgana tcatggataa agctcttga 449
  
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<210> 7140  
 <211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-096-Q1-E1-A11

<400> 7140

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tcagggtcag actccgaatg gttcgaccgc ggcggtcact tctgctccgg cgacgtcagg 180
tggagcaacg gcgacccagt ttggtaacac gtcgctttat gtggggggtc tcgatttcaa 240
tgtgacggac tcgcagcttt tcgatgcgtt tggccaaatg ggtactgtgg tcaccgttcg 300
tgtctgtagg gatttggtca ctgcgccatc tcttggtat ggatacgtta acttcaccaa 360
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tattagggtt atgtantctc atcgtgatcc t 451
  
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<210> 7141

<211> 467  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-E9

<400> 7141

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ccgtggattc aaatcgatat tgagaagatg gtagatgcga tcacggagtt cgttgtggga 180  
aagatcggca actatctcat tgaagaagca tcaatgttta tggcagtcaa agaggatcta 240  
gaagagctga agacggagtt gacgtgcac catggttatc tcaaggacgt tgaagcgca 300  
gaaagagaag atgaggtctc aaaagagtgg tcaaaactgg ttttagattt cgcttatgac 360  
gtcgaagatg ttttggacac ttatcacttg aaactcgaaa gaaangtcac aaaggcgang 420  
cttgaggaga ttgaccaaca ngatangcaa ggaanattgg atgcctt 467

<210> 7142  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-F10

<400> 7142

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ttagggtttt gtttgtgttg cttcgaattg agcagctatg gttccgtgt tgctacttct 180  
tctggtgttc gtgtttgatc tcattgcttt tggctctgct gttgctgcag agcaacgang 240  
aaccacctgg canatttcna gagaatcaag agatttgagc tactgtgtgt atgacaagga 300  
catagcaacg ggtctcggag tcggttcttt cttggtctta ttagcgagtc agctcttaat 360  
aatggtggcg aaccgatgtt tatgcngtgg aanagcattg acaccaantt ggttcaaat 420  
cttggggcan tttttccctt caacaanaac tgggggtttt ctcctcaa 468

<210> 7143

<211> 475  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-F2  
  
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 ttgctacttc ttctgggtgtt cgtgtttgat ctcatgtgtt ttgggtcttg tgttgctgca 180  
 gagcaacgaa gaaccacctg gcaaatttct agagaatcaa gagatttgag ctactgtgtg 240  
 tatgacaagg acatagcaac ggggtctcgga gtcggttctt tcttgggtctt attagcgagt 300  
 cagctcttaa taatgggtggc gagccgatgt ttatgctgtg gaagagcatt gacaccaagt 360  
 ggttcaagat cttgggcaat ttttctcttc atcaacaact ggggttttcc tcctcataac 420  
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<210> 7144  
 <211> 120  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-095-Q1-E1-F4  
  
 <400> 7144  
  
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<210> 7145  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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acccgctgga taccacaaac aaggttaccc tccaccaccc ggtgcttacc cgctgcagg 180  
 ttatcctccg ggtgcctacc cacctgctcc tgggtggttat cctcccgcc ctggttatgg 240  
 tggttatcct ccaactcctg gttatggagg ttatcctcct gcacctggtc atggtgggta 300  
 ccctcctgct ggctatcctg ctcatcactc aaggacacgc angaagaatt ggggggtatg 360  
 attgcaagtg ctgcaactgc ctaanggagc tcaacacgtn gcctcanaac tcnaaaggtc 420  
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 gchagg 487

<210> 7146  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-G10  
 <400> 7146

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 caattcgcga aatgatacgc gatgaagta accaatctat cattatcagc ggcgagagtg 180  
 gagcagggaa aactgagact gctaaaatag ctatgcaata cttggctgct cttggaggcg 240  
 gaagcgggat cgaatatgag atacttaaga ctaatcccat tttggaagca tttggaaatg 300  
 caaaaacatt gagaaatgat aattctagtc gttttgggaa gctaatagag attcatttta 360  
 agtgaaagtg gaaagatatc ggggtgctcaa attcaaacct ttttactaga aaagtctaga 420  
 gtgggtccaat gtgctgaang ggaaagggtca tatcatattt tt 462

<210> 7147  
 <211> 406  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-G11  
 <400> 7147

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caccggatca ttcgctccac cgccgtgggt ggccggagct ctatcattcc tgccgccgct 120  
aaccgggtcat atcctattat attccggaat ggagttgatt tgggggcnag attcttctgt 180  
gagaacactg cgtctgcccc gaatttcgat attgatctct ctaacgaaga gaataataga 240  
agaacgatca acagattggt gtataggagc aagcaaagag ggtttttggg acttgatctt 300  
gttttgggga attgggttga ggagaatggt aattccatgg gacgaaaatg gtgttaaadc 360  
cctaattcat gtcctcaatt tggaaaaacc tgatcctgga aatggg 406

<210> 7148  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-G4

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tcgacgcccc actgtcctgg cttcatgcga attagctccg gacctcaatt tcgtctcaga 180  
caaaaactctt ctcttaaatt ctcgagacca ttcaaagcg gaacaacttg tgttaaactc 240  
cggagaagct ttgtggttaa agcttcagct tctggtgatg cttcaacaga atcaatcgcg 300  
ccgcttcagt tgaagtctcc tgtgggacag tttctgtcac agatattagt gagccatcct 360  
catcttggtc cagcaagctg ttgaacagca gcttgaacaa gctccaaatt gatcganacg 420  
ctgaagaaca gagtaaagat gcatcctccg tccttgggaa caaacaatgg gtcccca 477

<210> 7149  
<211> 432  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-G5

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acagaaatca gccatggctc gtgccaaaaa cttggagaag gctaaggctg caggaaaagg 120

tagccaattg gaagctaaca agaaagctat gtcgattcag tgcaaggttt gtatgcaaac 180  
 attcatctgc acgacatcgg aagtgaaatg caagggagca acgccgangg cgaagcatcc 240  
 cgaaagcccg atgttggcgc ttgtttccct caactcaaag aaagtgatga aagctattat 300  
 ctcaactata aaggattcca atgtataacc gtatgggttc tcattcttcc caagtttggt 360  
 aacaaaatcc cnaacaaatt ttaagggttc caattccccc caacttgttt caacaataaa 420  
 tccccttgca an 432

<210> 7150  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-G6

<400> 7150

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 cctgaacgtc atgtgaggac tcgactttac ttcacatctg aatcgcatat tcattcgctc 180  
 atgaacgtcc ttcgatactg taaccttgat gaatctctcc taggagaaga aagcctcatt 240  
 tgccaaaacg ccttagaacg tctctgtnaa accaaggnaac tcgattacat gagttacatt 300  
 gtcctaaagg tctttgagaa caccgaggtg tcaactnaaa gacccgaaaa gatccccatt 360  
 gnacttacat ttaaccgtgg gagctgaatt gtctccccta aaggganaat gacgaccaag 420  
 naggagacan tgттаatggg ggga 444

<210> 7151  
 <211> 407  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-H11

<400> 7151

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atgatttgac accaatccca gagggcaaac cccaagtggg gcagtgggtc aatacccacg 180  
 ttggtccatt ggctcaacgt aaaggcttag atcctgctct cgtaactgct gaggctgctc 240  
 cacgtatcat caacgtgaat ccaaagggag gtgaattcaa aacactaaca gacgcaataa 300  
 agagcggttc cgcaggaac acaaagcggg tgatcataaa gatggctcat ggtgaagtac 360  
 agagagaang tcactatcga caggaacaaa cccttcatta caattgn 407

<210> 7152  
 <211> 384  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-H12  
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 cggaagattg ttaccctctt ctacctggat tgagtgattc agtggtttccc acttcaaaaa 180  
 actcttcttt gtcttcttag tgttttggtc atcttctctc tcggagaaaag acaagttcca 240  
 ttgtaattaa ggaatcgctg tttacacatg cacaacctat tctttggtct ttcatttttt 300  
 taattgcttt anangggaa ctctcgatc atttttaata cggtttggtg ctaataagtt 360  
 tccgttaaaa aagaaagcgg gcgc 384

<210> 7153  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-H6  
 <400> 7153

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 tgatcaccag cttaaggaaa cacctagtta acacacgcgc ttccacacgc gccaccgcct 180  
 ctgctctctt cccttcacgt cggagtggac attcctcggc gtatgacaag aacgtggagg 240

atgaattgca tgcaagtgca gtacctgacg aagttataaa gccaaagattn ctgataaata 300  
 tgggctctca nccccaaaac aggagtcctc cgggtccctcc taagaactga acaaaagcgg 360  
 cancggcnga aggggtgnaac aacaaggaca caagnattgc tggaaggaaa accggccngg 420  
 tttggccaaa naagttcccc aanggattcg ggnaaagact caccaaaggt tgggtccccc 480  
 nttcc 485

<210> 7154  
 <211> 246  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-095-Q1-E1-H7  
 <400> 7154

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 ctatatgttt tttttttttt attaacctac gtagctgtct tttgtgggtct gtatcttgtg 180  
 gttttgcaaa aacctataat aaaattagag ctgaaatggt accatttcta aaaaaaaaaa 240  
 aaaagg 246

<210> 7155  
 <211> 471  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-E3  
 <400> 7155

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 actaaagaca ataatggagg tcctcaattc gttaaaggca agacaaaagt cggatcatgtt 180  
 attgatgatg tgggtcaaagt ccttaccgta gcggttacaa ttgtcgtagt ggcattgcct 240  
 ganggtcttc ctttggctgt tacttttanc cttgcctatt caatgaggaa aatgatggca 300  
 nataaggctt tgggtgcngag gctatctgct tgcgangaca atgggctctg ccaccactat 360  
 ttgcanccga taaaactggn acacnaactc cgaatcagat gactgtgggt tgnatcttan 420



gctgggggggn aaagaaaaca gttctgaacn aaatngcaaa caaataacac c

471

<210> 7156  
<211> 517  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-H8

<400> 7156

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acgaaacgat cgcgatgacn angacggtga cgcccttggtt gcgaagaaat cagcactggc 180  
ggtgtgtgat gccgaccctg cagcggccat agcgaatatc cgacatgagt ttggggagca 240  
cgggggagta aacatgtcca tcgaagcctc cgccaccttc accgtcatgg naccggatac 300  
catgatggcg atgttcaccg gagaactggg accggacaac gacttctacg tatacagccg 360  
acacttcaac cccaccgtgc tcaacctcaa gccgccaat ggctgctctc gaagggaacc 420  
aagctgecta ctgtacctcc tanccgggnt gttcggcgat aatcgtcaag ttgatgctgc 480  
aactgtggca ancaagccgg agggacacct tngtttg 517

<210> 7157  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-B8

<400> 7157

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ctctgtctgt ccatcagctt gttgngaagtg ctgatgagtg catggttctt gataatgagg 180  
ccttgtaacga natttgcttc aggactctca anctcantac cccagcttt ggtgatttga 240  
accacttgat ttctgctact atgtctggtg tgacttgctg tctgaggttc cctggtcaac 300  
tcaactctga cctccgaaag cttgctgtga atctcatccc attccccgt cttcacttct 360

tcattggtggg ttttgctcct ctcacctcaa naggtttctca tcagtagcgt tccctcacan 420  
tccctganct caaccagcaa atgtgggaat ccaataaca 459

<210> 7158  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-C1  
  
<400> 7158

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taaactctgta acagtcgaag aaactctcac tctttaattg ntcaatggcg tctcttcaaa 180  
tcagtggctc cggttaaattc gngccgttcg ttggattcaa ccggatncgc catttccgctc 240  
cgatcgccag tctcggattt cctcgttttc gacggagatt cagtatcgga cggtcattgt 300  
tgcttcgctc ttcttcttcc ttctccggtg actctcgtga gtctgatgaa nagagattta 360  
tcacagacgc agagagagat ggttctggct ccgttccttg gggttcannn cactcctccc 420  
gggtgnttaa caaa 434

<210> 7159  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7159

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acttctgttt gggttgattt agtctgcang gtttaagcag aggttggttt gtggattctt 240  
cgatttcttc ttcagattta gtctacaatg aagtgagaat ttcnaaagat anacaangaa 300  
aaacttgaga ctttagcaag atggagactg tgagaccaat gggtgttgct cctaagggta 360

acaaactcag acgcaagttt gctaaagttc ttaacattca taaagctaac ggtgtgtgct 420  
ccagaaggng aaaatga 437

<210> 7160  
<211> 529  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-C2

<400> 7160

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aggaggtttn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnngt ttggaaaagg tggagggatc nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa taggcaaagg 240  
tggaggagtt ggcggcggta tcggtaaagg tggaggatc ggtggcgaaa tcgangcaac 300  
aanaggaacc agagaccaat gaggcaactg agacgaaatc anatgacttg gctggtggtc 360  
caaacattga agccgaaccc gtttaagcaa caagaagaga acancaaagg gccaactgtt 420  
aatttcactt ccgaagtttc ccccttgngt ttaaccnctt aagttaaaac cagaacaacc 480  
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<210> 7161  
<211> 512  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-C5

<400> 7161

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attcaaatcg atattgagaa gatggttagat gcgatcacgg ngttcgttgt gggaaagatc 180  
ggcaactatc tcattgaaga agcatcaatg tttatggcag tcaaagagga tctagaagag 240  
ctgaagacgg agttgacgtg catccatggt tatctcaagg acgttgaagc gcgagaaaga 300

gaagatgagg tctcaaaaga gtggtcaaaa ctggttttag atttcgctta tgacgtcgaa 360  
gatgttttgg gacacttatac acttgaaact cgaagaaagg tcacaaaggc gaagcttgag 420  
gagattgacc aacaaaataa gcaagaagat ggatgcgtac aacatanttg atgatatcaa 480  
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<210> 7162  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-C6  
<400> 7162

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aattanagat cgatccaagt tttagattcg agaattatct tctccaaatt agatttatat 180  
atcaaaagga atcgaaaata gacagcaatt tttgttttgt cggatcgat tgaatcagct 240  
gtgaatttta gcgccaattt aaccactgaa tcgtttgatt agaagctaag atttggctct 300  
acgatcgatc taagtagggg tcttcttctt aagtgtgtgt tttgttaaaa ttagtaaaga 360  
gagatggaga agaagaaagt cgcgacccgc tagtgtgcca tgggcaatcg agacctgttg 420  
tgggatttgg tccaaaagcc aatcaatccc ggatgggttc ntccctcaa 468

<210> 7163  
<211> 407  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-095-Q1-E1-C9  
<400> 7163

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tgtaacagct actggcttct gttactttct gtattaatat caccttccca tttcttttag 180  
cagcatgtga acacagatat gtcatcacct gatggaggcc atgttaggga gagagaatcg 240

catcctgaac atgacaaacg tgctcagctg agcaatcaag ctgaagcagt tgggtgttggg 300  
agaatggaac agtctgattc aacaagtcca ttaccgaata atctgggcag tagaaaggag 360  
tttaacgacc tctcctcaaa aagttgcaag ttttttgggc cgtttta 407

<210> 7164  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-D10  
<400> 7164

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cctcggctta gcatccaaat ggcgagatac tgcaactgga ctacatgttg aatatgacca 180  
gcgtcctgat gtttttagag gaacagtacg ttatgctagt gtacatgctc atcttggcag 240  
aacttgcagt cggaggggatg acctgggaat ctcttgetta cactcttggt ttccttcttc 300  
gaggccggt tccatggcaa ggggtaccagg gagagaacaa aggtttcctt gtttgcaaga 360  
agaagatggc cacttcccca aaaactcttt gctgcttctg tccccaacct tttcgtcaag 420  
tttgtccgag taagtgggca atttgaagtt tggatgaagg anc 463

<210> 7165  
<211> 451  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-095-Q1-E1-D12  
<400> 7165

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agacttttgc ggaatcgacg gccaaagattt cgccggaatt aggatttaac cgctcagaga 180  
atctccatga tnaatctcag catcctccat atattcctcc atttcatggt gctgggtttg 240  
caccgggacc ggtgggttcaa attgatggtt ctgatggggg taatggagct gactttgagt 300

ggaactatgg gtcttggctt tgaaccaaga cntgagagga taaaggaaca agatttcttg 360  
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<210> 7166  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-D3  
 <400> 7166

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 agaaattcca ttaggaagat ccttcctcga gatcaaagaa tctgtagcta tgagccgctg 180  
 ctttcttcag atccgacaga tttcagtact gtttcagata accctgaaaa gatctcaaatt 240  
 tcgaacctcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnntttga cttgaatgta caaacctatg aacctattgt accttcaaga 360  
 tatgagaatg cttgcagtga tgatgaaaga aggggaaaag gngggaagaa caaagggatt 420  
 ttccgntata gnataagaaa accanagggt ttaagcngtt anatttgggt aaccctcaaa 480  
 acaaa 485

<210> 7167  
 <211> 509  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-D4  
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 caacttgga ggtactgcgt ggagcaattc aatcaacaag cacagaacga gcaaggaaac 180  
 ataggatcca ttgcgaaaac agacacggca atttcgaatc cattgcaatt tagccgagta 240

gtgtctgctc agaaacaggt cgctcgctgga ctcaaatact atctaaggat tgaagtcact 300  
 caacccaatg gctctaccag gatgtttgac tctgttggtg ttattcaacc atggctccat 360  
 tctaagcagt tgctcggttt cactcctggt gtcagtcctg tctactaact ttattttcttc 420  
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 naagctantt aagaatgggg ttaaaagtt 509

<210> 7168  
 <211> 453  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-E12  
 <400> 7168

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 agtaaagtct atacatatca gcaattcaaa ccctatgtgc catgcatttc atccagatgc 180  
 taaggggtggn catgatctac ttattgggct gaactctggg gatgtctaca ccgtatcact 240  
 aagacagcag ttgcaggatg ttggttaagaa gcttggttagt gctcagcatt ataacaaaga 300  
 tggttctgta aataacagcc gctgtaccag tatagcttgg gtgcctgnga ggtgatggat 360  
 cctttgttgc tgctcatgcc gatggaaatc tgtacgtata tgaancngaa taatanaang 420  
 tgcaactgga ttcctcaatt ttcccggccn aaa 453

<210> 7169  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-E2  
 <400> 7169

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 aattatagat cgatccaagt tttagattcg agaattatct tctccaaatt agatttatat 180

atcaaaagga atcgaaaata gacagcaatt tttgttttgt cggatcgtat tgaatcagct 240  
 gtgaatttta gcgccaattt aaccactgaa tcgtttgatt agaagctaag atttggtctt 300  
 acgatcgatc taagtagggt tcttcntctt aagtgtgtgt tttgttaaaa ttagtaaagg 360  
 agagatggag aagaagaaag tcgcgacccc gctatggggc aanggccatc cgaaacctgt 420  
 tggnggantt gtccaaaagt ccaaacaccc cggagggggt ccttcnanaa aag 473

<210> 7170  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-095-Q1-E1-B7  
 <400> 7170

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 gctgacgaag attacaacga cgtcgatgac ttgggatatg aggatgagcc agcagagcct 180  
 gagattgaag aaggagtaga ggaagatggt gaaatgaagg agaattgatga tgtcaatggt 240  
 gagcctattg aagctgaaga taaagtcgaa acagaacctg tgcaacgtcc acgcaaaacg 300  
 tcaaagttta tgaccaagta tgagcgtgct cgtatcctcg gcactcgcgc tttgcagatt 360  
 agcatgaatg ctctgtcat gggtgagcta gagggtgaga ctgatccact tgagattgag 420  
 atgaaggagc ttaagcagcg gaagatacca ttactatta aacgctancc aactgatggg 480  
 gaattttcaa gnatgggga 499

<210> 7171  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-093-Q1-E1-F1  
 <400> 7171

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gctgaaattg gtaattagtt gagaggcaat aacattgttg gttaggcgta ctgactaatt 180  
tctagttttg ccagaaatga atgtcttctg gtttctggta ttcacatgt gaattctgta 240  
atcaattcga gtctctggac attttggttaa acaaaatcaa aacaagacat taattttgac 300  
ctttggagac attaatcttt gggtttgttt tccaccggat gcagctttat gtacatgtgg 360  
aaatctatgc atcaatacca tgagactcag aacagcatcg tggagcaagt ccgggggctc 420  
attaacagat cgggcaaaaag gcgaatcaac atctgaagct acaccgaaa agctacacg 479

<210> 7172  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-093-Q1-E1-F10

<400> 7172

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gactggggag caatcatagg ttggtgtcta tgcttggtta gaccaagacc gagtcaaagg 180  
tttcataagt ctctctgttc catatttccc aagagatcca aaactcaaac cttcagattt 240  
tttcaaaatt tttggagatg gtttatacat cactcagttt cagaaaccg gaagagctga 300  
ggctgcattt gccaaagcatg attgtttatc ggtaatgaag aagttcttgc taataacaag 360  
aacagactac ttagtggctc ctcttgacac agagatcata gatcatcttg agataccg 418

<210> 7173  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-093-Q1-E1-F6

<400> 7173

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aaggaatata tcgaagggtg gaaagtggat acaggataac atcaatggct gcaacagctg 180  
atcaagcagc tcttatattg agtataccta aacgaaaaat aaccgatgaa acccaagaga 240

ctctccggac ttctgccttc ccaagtaccc atgtcaagga gaaatgggcg aaaaatctgt 300  
acattgcac aatattctat ggtcggacag ttgtctgatg aaacatggag tatactgttt 360  
caacctctct cactctctct ctagggtttt agggacgac tctctctaga agcct 415

<210> 7174  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-093-Q1-E1-F8  
  
<400> 7174

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gcgtttgatg tggtttacag ccagcctcaa ccaagaagca atgctgctga agtaagacgc 120  
ttggaggagc tctacaatag atataaagac ccgtattctg atatgattct tgcggagggt 180  
atctcggttc tgtgtaatga tcttgagggt gaaccgcaag acatagtcac gttgggttctt 240  
tcgtggcata tgaatgctgc aacagcgtgt gagttttcca ggcaagaatt tatcagtgga 300  
ttacaggcat taggtgtaga ttcaatcggg aagttgcagg aaaagctgcc atttatgcgt 360  
tctgagctta aagatgaaca aaagttccat gagatataca actttgcttt tgggggtgg 418

<210> 7175  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-093-Q1-E1-G1  
  
<400> 7175

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aaataagatc tgaggttttt tctcgagaag taagagagat ctggaatttg gcgacgatga 120  
nttacggatg ggcgatatac gaaggcacgg tggatgatan ttcactaagt ctcttangat 180  
gggcaggttt atggtttctt aancggagat tatacaaaga gtatgaagag aaacnagctt 240  
tggttcaaat catcttcagt gtcgtcttcg ctttctcttg taatctattg cagctcggtt 300  
tggtcgagat catacctgtt ctctctagag aggcaaggat gataaactgg aaggtgggat 360  
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<210> 7176  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 tgggaagaaa cctacagtta tatttgttct tgggtggcca ggaagtggaa aaggtaccca 120  
 gtgtgcttat attgttgaac attatgggta cacacatctg agtgctggag atcttcttag 180  
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 gaagattgta ccttctgagg ttactatcaa gcttctacag aaagctattc aggaaaacgg 300  
 gaatgacaag ttcctcattg atggtttccc tcgtaatgag gaaaaccgag cagcatttga 360  
 aaaagttact gagattgaac caaagtttgt cttaatcctt cgattgtcct gaaggaana 419

<210> 7177  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 7177  
  
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 gtgaagtatc tcggaaacca cacttgtaac aacatcacat cccgaagac gacgacgaac 240  
 ttctctgttt cattgacgaa cacgaacatc tttgaaggaa acagagtaca tgttacagag 300  
 caatcggaag acatgaaacc gaccaagtcc gaagaagtga tgataagcct tgaagatctg 360  
 gagaacaaga agaacatttt cagaacgttt tctttctcta accatgagat tgagaacggg 420  
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 aa 482

<210> 7178  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-093-Q1-E1-G5

<400> 7178

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tgatcgtggg ttacgcagct aacgggaata cattagaggc tttagaatgc tttcgtcaga 120
tgagagaatt cgggtgtcaga ccaaacaaga tcacgttcgt tggagttctc agtgcttgcg 180
tccatggagg tcttgtggag gaaggaaaaa catattttgc gatgatgaag tcagagttec 240
agctagaacc gggattatcg cattacggat gcatagttga tctattgagc cgtgacgggc 300
agcttaagga ggcaaagaaa gttgttgagg agatgccgat gaagcctaac gtgatggttt 360
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<210> 7179  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-093-Q1-E1-G9

<400> 7179

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ccagtatgaa ggggttcctg ctatgttcaa gattggaaac agcaaggagc ttccagatat 180
ccctgatcat ttatctgaag aggggaagga ttttgaaga aaatgcctac aaagaaaccc 240
cgaaaatcgt cctacagctg ctcagctttt ggatcatgct tttgtaagaa atgtgatgcc 300
gatggaaaagg cctattgtga gtggcgagcc tgcagaaagc catgaatgta gcttcgagca 360
ccatgaagat nactgggaca ttggacatgc aaaggagtcc tccgtgccta aactncgga 419
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<210> 7180  
 <211> 461  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-093-Q1-E1-H12

<400> 7180

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ttaatagaca aagatctaaa tgacaagttc gatagagtag aactcgaaga aatcgttcaa  180
gttgcgctac tctgcactca attcaatcca tctcatcgac cgaaaatgtc agaagttatg  240
aagatgcttg aagggtgacgg tttggctgag agatgggaag cgacgcagaa cgttactggg  300
gagcatcagc caccgccatt gccaccgggg atggtgagtt cttcgccgcg tgtgaggtat  360
tactcggatt atattcagga atcgtctctt gtagtagaag ccattgagct ctcgggtcct  420
cgatgattat gactcactgg tttttaaaaa atttcctttc c                               461

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<210> 7181

<211> 442

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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<400> 7181

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ttgacaacga ccaatgctca ggtaatgcat agacggetct ggccttggcc attgtggcca  180
cggccgtatc cacagccgtg gccaatgaat ccaccaacac ctgacccatc accaaagcct  240
gtcgcaccac ctggcccac atcaaaacct gtcgcaccac caggcccac tccatgcccg  300
tcaacaacaa caaagcctca aaccaaagcc ccaacaagca acctagccaa tctccatgcc  360
atcaccacna cctaaagcct caaccaaag gccaanagcc aacaaccaag catggccan  420
cnancacctc ctaaacctca aa                               442

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<210> 7182

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-093-Q1-E1-H4

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caaccagat aaatacgtct tctacgactt cgttcatcca tccgagaaag cttacagaac 180  
aattttctaaa aagcttgtcc aggatatcaa gaatggcctt gcctgattta ttatatatac 240  
aatgctttat ttttaatttta ataacagcca tcgttaataa tagaaatgag aagacaaaaa 300  
tcatacatgg cgatctctct gtttttctta tgtaaagaa tgtataatcc agtttatgta 360  
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agg 423

<210> 7183

<211> 412

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-093-Q1-E1-H5

<400> 7183

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acagatcgac gacttctacc ggaattcgct tcgctgggta taagagctta gccaccaccg 180  
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catctgatgg agatgaagaa gaagctatac ctctgagatc tgaagggaag agctctggaa 360  
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<210> 7184

<211> 301

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-093-Q1-E1-H7

<400> 7184

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ttaatgttat gatgacccct cggtttccga gttttgcttg ttttggtgac ctttaattttt 180  
cttactgatt ctaaatttat aaattcctgg ttatatactt gcatgatttc tctaattgtcc 240  
tcttggtctt ggacattttc gtttggaata gtttttaact ttgcaaaaaa aaaaaaaaag 300  
g 301

<210> 7185

<211> 424

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-094-Q1-E1-A1

<400> 7185

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cttgctgaag aggctgggaa tggctggtaa agaggagact gatgtatctg cacaagggtc 180  
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agatagttaa gaagctgaac ttgtggatgt caaggcttac cttgagtttg gctcagaaga 300  
agatgccaga aaggagttag gagttctttc gggtaggtc agatcgactg caactatgtt 360  
gccgttattt gagatcaaaa gctaagagtc ctgggcattc ctgatgatcc tancaaatgt 420  
gtca 424

<210> 7186

<211> 415

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-093-Q1-E1-E8

<400> 7186

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 cccatcgagg aatttggtta cgaatctttt gatctgacta aacctagga gcttgatcac 180  
 aaggagactg aaaccaatgc taggaggagt ctcttcaggt tagtagaatg agtagaaaaa 240  
 gaacggaaaa tggcagtga tcaggaccag ccactttctca tggtcctgtg gatagattcg 300  
 ggttttctcaa gcaagaacat gccaatctgc ctgagcgttt tagcaagtct aaaactacat 360  
 catccactga tcatgacaga gaggagaaga aaggtgagaa aatgggagga agatg 415

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 <211> 475  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-093-Q1-E1-C7  
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 tcgatttaaa gcaaaagtgt aattataatc ggaagcgaga tcttgagaaa tgggtgggatg 180  
 acggcggagg gagatggcga ggggaggagg agaatggacc ggaggggatcg ccggaaccgg 240  
 agttctctct ttcaaaagaa tcactctact tgtttgcttt ttcaacattc tcattgctct 300  
 ctttgttctt cgctttctct atgcttcttc tctccacatc tattccaata acgataatgg 360  
 ttctactttt ttattttctt tttcattttt gctctctgat tcatgataat tcgtatctga 420  
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<210> 7188  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 aagaagaagc aaaaaaaaaa gaaatcgaat ctctctttca agtggttcgat ttaaagcaaa 120



agtgttaatta taatcggaag cgaagatctt gagaaatggt gggatgacgg cggagggaga 180  
 tggcgagggg aggaggagaa tggaccggag ggatcnccgg aaccggagtt ctctctttca 240  
 aaagaatcac tctacttggt tgctttttca acattctcat tgctctcttt gttcttcgct 300  
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 ntttcctttt canttttgct ctctgattca tganaattcg taatcngaaa gcagctctgt 420  
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<210> 7189  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-093-Q1-E1-D1

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 gaggaatcga aaaatttgta actttcggtc agaattatat tgttacgtgg ggacaaagtc 180  
 atgtttctac actocattct ggcaagaag ttgatcttta catggatcaa tcttcaggtg 240  
 gtgggttcga atccaaggac gcctacggat caggtctctt tgaaatgaga atcaaagtgc 300  
 cttcaggaaa tactggcggc atcgtcaccg ctttttactt gacgtcgaaa ggaggtggtc 360  
 acgacgagat tgacttcgag tttctagga acaacaacgg aaaaccggtg acgttacaga 420  
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<210> 7190  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-093-Q1-E1-D11

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 tcgtcgcgat ctctgttttt taggcctaag cttcgaatcg atccaagctt gaccttaatt 180

ccaggcttat ccaacgacgt cgggagactg attctctcct tcgtccctta ccctcacatc 240  
tctcgtatca aatcaacctg taaatcatgg tacgctttcc tctcttccaa aaccctaatt 300  
tcactccgcc atagcaagag acaacaagca acaccaacaa tctctcgcac ctccctttgta 360  
tcttccctca agatccttcg atttcgcctc cttttctctt cgattccgtg actctct 417

<210> 7191  
<211> 481  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-093-Q1-E1-D12  
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caacttcaaa taaagacact ttctaagtag aaattttacaa ttgaatgtga attaaactgat 180  
tcggtaagat caataaaaga aaaaatcgct tcgaaagatc ttaaagataa atacgaagct 240  
gatgcgggta aactaatttt ttcgggaaaa attctcgaag attcaaaaac acttgaatct 300  
tattcgataa aagaagatag ttttctcggt gttgttaaac aaacaccgcc aaaagcatca 360  
tcaagcagca gcaactacac cgagttcatc agctgcatca actaatgttn nnnnnnnnnn 420  
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c 481

<210> 7192  
<211> 482  
<212> DNA  
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<223> unsure at all n locations  
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gaggaatcga aaaatttcta actttcgggc agaattatat tgttacgtgg ggacaaagtc 180

atgtttctac actccattct ggcgaagaag ttgatcttta catggatcaa tcttcaggtg 240  
gtgggttcga atccaaggac gcctacggat caggtctctt tgaaatgaga atcaaagtgc 300  
cttcaggaaa tactggcggc atcgtcaccg ctttttactt gacgtcgaaa ggaggtggtc 360  
acgacgagat tgacttcgag tttctagggg acaacaacgg aaaaccggta acgttacaga 420  
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an 482

<210> 7193  
<211> 424  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-093-Q1-E1-D8  
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ttgagacgtc tacagctaag ttcccggtca aacttagaaa tcaaagattc atcaaacact 180  
aggttggtgt tccagcgctg agtcaaatac atggaagagg attttgtctg cagcaatggc 240  
ggcggctgtt atagcctcga gtcccggcgt tccggccatg gcagagctta acaggttcga 300  
ggccgataca cgtggcgagt ttgggattgg ctcggtgct cagtacgggt ctgctgatct 360  
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gaga 424

<210> 7194  
<211> 423  
<212> DNA  
<213> Arabidopsis thaliana  
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<223> Clone ID: LIB24-093-Q1-E1-D9  
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ttctccttcc aagcatttgg agaaagggtc ttctctacgt gagagctcca gcaacggaat 180  
 tgaaacacgg aatgggacag atgcacgtag tcatgagaat ccaaataaca gggaatcctc 240  
 tattgagcga tcaccgagca aaaaggagga tattgctctt aaagtggaag aagcaggtgt 300  
 gaatcacatc cccccctcaa gttactggga tnaaattctg gagatagtct agtgaggaag 360  
 gttcanaaag tcgaggaac aagaattagg tggtagaan gatctgcat tgacgggtca 420  
 tgg 423

<210> 7195  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gtgttgaata gtcctgctat aggagcgttc gtgacacatt gtggatggaa ctcaattctc 180  
 gagagtcttt ggttcggtgt tccgatggcg gcgtggccta tctatgctga gcaacagttt 240  
 aacgcgtttc atatggtgga tgagcttggg ttagcggcgg aggtaaagaa ggagtaccgt 300  
 aagagatttt ctggtggang agccggagat tgtgacggct gatgagatag agaangggg 360  
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 gga 423

<210> 7196  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana  
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ctgtgccgat gactcagtcg ccgagctaaa acgtcgcatc tgctttctca ccaccgtttt 180  
acctaaacgc caaaagcttc tttatcccaa gatcggaaac aaactctctg acgattctct 240  
tttactctct tcgatctcct ttaagccctc cctcaagatg acaatgatcg gtactgttga 300  
agatgatata ataagtagat caagctgaat ctctgaaat tgttgatgat tttgagcttg 360  
gtaaggaaga agctgttgat gttaaagata anagaagtta ataaaacaga agttgagaag 420  
g 421

<210> 7197  
<211> 478  
<212> DNA  
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tttctccgaa cctagatcg tcagattctt ttgggtgtct tcgttgcttt cgtcgccgtt 180  
ggtgctggtg ctgcttattt tcttacatcc tccaagaaac gcagagtgtg tttggatcca 240  
gagaatttca aggagttcaa gcttgtaaag agacatcagc ttagtcacaa tgtggccaag 300  
ttcgtttttg aactcccaac ttctacttct gtgttgggtc ttcccattgg acaacacatc 360  
agttgcaggg gaaaggatgg tcaaggagag gatgttatta agccatacac cccgactacg 420  
ttagactctg acgttggacg tttcnaactt gtcattaaag atgtatccgc aanggacg 478

<210> 7198  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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ttgaagttat agaatggact ttgatgagta tgagtactta gagaagacag ttgaaaatcc 180  
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 agagaggagt aggagctcaa ggcataagggg tgacaagaag aaggagaggg atgaagatga 300  
 ggatgggtcgg cgttctaagc ggtcgagatc gcatcaccgt tcacgttcta aggacagaga 360  
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<210> 7199  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 gtctccgtgc tctccgtaag aaatacaacc gaatcactca aatggaagaa tcgatttctc 180  
 aaggcaaaac cctaaacaag gagcaagaag aagtcctccg ctctaaacct gccgtcgtca 240  
 tcctaatega cgagcttgaa aagatccgtg ctctctctc cgccgctgtg acagaggaaa 300  
 tcagcctcgc tactcagctt aaccgtgctt catccgatca aaccaccgca tctgagcaaa 360  
 aggaagtcac tgatatcccg cangaagta gcggcggcga tgatggcgcc aagtt 415

<210> 7200  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-093-Q1-E1-E7

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 aagaaacca actccgtgag agcaacaaca accaaaaagt ccctcctcaa ccaatggaag 240

agtcctatcaa tcagaatcct gaagctatgg aagcacttat ctccaatctc ttcggaaaaca 300  
 tctcgtctttt gaaatctgct tatatcgagc ttcaaagtgc tcatactcct tacgatcccg 360  
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<210> 7201  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-093-Q1-E1-C11  
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 tcagcgcaag aagtcatggg tctcagccgc cgtgaaaggt gctggtaact caccgaacga 240  
 ccccaaattgg cttgatgatg cctcagagaa agcttcgggg tacgtgaaag aagaagggaa 300  
 gtgaagtggg aaacgtgtct gctcaaaagg gacaagagct tcaaaatcag atggagagag 360  
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<210> 7202  
 <211> 475  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-092-Q1-E1-H4  
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agccagcaga tctacactcg tgccaccaac acctaaaaag cgtgaccttt caatgggttg 420  
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<210> 7203  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-092-Q1-E1-H5  
  
<400> 7203

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<210> 7204  
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<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-092-Q1-E1-H6  
  
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aatctatattt aaaaatccgt tgagatatag ttatataagt agtttggtga ctcaattagg 240  
tttacacaca aagacatggg atcggctggg gtagcgagtt cttcttctga tgttgcgatc 300  
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ttgaatacat tgaagttggt tgttgaggct actattcagt acatcaagcg attcatatcg 420  
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<210> 7205  
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 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-092-Q1-E1-H7  
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 caaaattacc atctttctgg aaagggagag ggtattgtaa ttgctcctca tgttgctgga 240  
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 cggcctgctg ttctgataac cgatgcatat catgctcttt ataccaatca aaccgcaaga 420  
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<210> 7206  
 <211> 421  
 <212> DNA  
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gaagacagng gtcaagttga acaatggctt gatgtggnan cgancactta caccancgc 360  
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a 421

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<211> 466  
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<213> Arabidopsis thaliana  
  
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<400> 7207

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ctttaggatt tttttacctg aattcgaata tatacttttg attttcatct tccgtagtcc 180  
gtaccgtaga attgaggagc ttcattggaga acgagctggt tatgaatgca ggagtttccg 240  
atccgcgggt gatgacgtca ccgtcttctt cgtcggcgat gcttaagtgg gtttcaatgg 300  
agactcagcc agtggatcca agtctcagtc gcaatctggt ttgggaaaag tcaacggaac 360  
aagagcattt ttgattcggc tctgagctca ctcgtctctt ctctacgcc gtcaaattca 420  
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<211> 484  
<212> DNA  
<213> Arabidopsis thaliana  
  
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<400> 7208

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cttcttcttc ttccaagaga aatctcaatg gttaaaggcg tacctttatg ccgagaagtg 180  
ccttcttcgg tacaagaacc ggtcctttct ccacaccac ttctgctttt ctccagaatgg 240  
gcaccagaaa tggcggcggc gcttctagat acgcggttgg tccggttcgt gtggttaacg 300

agaaggttgt tggaattgat ttgggtacga ctaactctgc agtanctgct atggaaggag 360  
gtaagcctac gatttgtgac taaccgctga aggtcagagg gacaacgcct tctgttgtgg 420  
gcttacacgn aaggagtggg gatagggcct tgnttgggca agattgcgaa agaangcaag 480  
cttg 484

<210> 7209  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-093-Q1-E1-B3

<400> 7209

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gaatatttcg cagtattttc tgtctcttat ccttttgtat cttcttcttg acaacgacca 180  
atgctcaggt aatgcataga cggctctggc cttggccatt gtggccacgg ccgtatccac 240  
agccgtggcc aatgaatcca ccaacacctg acccatcacc aaagcctgtc gnnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnccta 420  
angcctcaac caaagccagt gccaccacca gcatgcccaa caacacctcc ctaaacctca 480  
accggan 487

<210> 7210  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-093-Q1-E1-B4

<400> 7210

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taattcacta cacacacaca aaaaataaat tgagtgcctc ccccaaaaac aaaattggta 120  
gataacgagc aattgttttt tttagattt gatcctgaat ttttacattt ttttttgcaa 180

tctcccccta atctgttggt tctcgcttct tcttctgtta atcatctgtc tttcaaaaag 240  
aaagaaaaaa gaaaaattcg atttctgggt ttgtttttgt catacagaaa aaaatcaagc 300  
ttatgaatth gtgtttaatt ttttgtttta atttgaaagg caggtttttt cagaacgaga 360  
tcgttttttt caaatttctt ctgattttac ctcttttttc ttcttagatt ttagtgaatc 420  
gagggtgaaa tttttgattc cctcttttcg gatctacaca agagggtgct taattc 476

<210> 7211  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-093-Q1-E1-B7  
<400> 7211

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tttaaccgta gaggatgtga tgcagctgta cagtatgttg aaaattttca gtttttagat 180  
gattgcgaga agagtgaggt tgagttggcc ttgaagaagt ttcgcgttct ttatccagat 240  
gcagtgagag agagtgcaga gaaaggactg cttaggggaa ttgctgctca tcatgcagggt 300  
tgtctacctc tttggaaatc tttcattgag gaactttttc agcgaggact tgttaagggt 360  
gtctttgcta ctgagacact tgctgctgga ataaacatgc cgggctaaaa acggctg 417

<210> 7212  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-093-Q1-E1-B9  
<400> 7212

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ttcgccgtct tcgaaatctc aaaccgggaa tccaaatccg tcttctgtag cattgcctac 180  
gccggaaaaa ccacttgaga acatgcttag tagatcgaga aaccgatctg tggctttatc 240  
aagtgaaaga aattcgtcaa gccgctggat ctcgtcgcaa gatctgaaga tccggttgct 300

tcattctgccaa aaagcaggct ctttttcgat tcattcatcat cttctccttc aaaacgtaaa 360  
agctctaaca aaaatgcaag agaaaagagaa acttccggag aagtacgaag aatctgggga 420  
aagtt 425

<210> 7213  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-093-Q1-E1-C1  
<400> 7213

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ggtagcttct tcccagtact tttttcaaatt ctatcctgca agatcaagtc acaaacacta 180  
ggactgtttc tccaatgaac aacgaagcct ttcattctgtt aagatgaact ccgcagctcc 240  
taactcggat ttcttgaatc ttcattcacat aaactccaca tggaaatcaga atctgcagct 300  
caggtcaact gattctccac atctccacct ggaatataag tctcctcacc gtatttccag 360  
gcgcctacag tggagttacc tggacgatgt tgaggagatc ataacaggca tgaaagtcct 420  
ttccaagctc ttgtatccgg aatcgatntc ctcttgaga attttaagaa ttgggtaaaa 480

<210> 7214  
<211> 496  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-092-Q1-E1-H3  
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ctgtcaagag gcaagagcaa gagctgcctt tggaaagaag aattagcaat gcccttatgg 180  
aagttggacc atcgattact ctacgaagtt tagccgagat tttagctttc gctgttggtg 240  
ctttcattaa aatgccagct gttcgagtat tctccatggt tgctgcattg gctgtccttt 300

tggactttct tctccagatt accgcgtttg tagctttgat agtttttgac ttccgacgga 360  
 cggaggataa gcgagttgat tgcttcccgt gtattaagac atcaaaatca tctattagt 420  
 ctgaaaaang gggttggtcaa agaaaagctg ggccttttga ctcgatatat gaaggaagtc 480  
 catgcacctg ttctta 496

<210> 7215  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-E11  
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 agaagaatcc taatgttttc ttggatgtat caattgggtg ggatcccgtt caacggattg 180  
 tcattgagct ttttgctgat gttgtcccca agacagcgga aaacttccgt gccctctgca 240  
 caggtgaggc gggcggttga aagtccactg ggaagcctct acatttcaaa ggatcatctt 300  
 tccatcggtt tatcaaagga ttcattggctc aggggtggtga tttttccaat gggaatggca 360  
 ctggtgggga gagcatctat ggtgggaagt tttcagatga gaactttaga ttggaccatg 420  
 atgggagctg gagtcctttc aatggcaaaa ttgtggccaa ataccaacgg gtcccaattt 480  
 ttaaactt 488

<210> 7216  
 <211> 509  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-E2  
 <400> 7216

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 caacttgaac gacctaaaac ancaacaaac gactccgggc gaagtgtatg tatctttcac 120  
 tttctcacta accaaccaag acgacaaaag aaaattattc atcttagcta agctcgatta 180

gtttctggcg gaaacggttt tgtggataat tgtagcata ttccgatctt gccctcccc 240  
gagagagaga gtcnnnnnnn nnnnnnnnnn nnnntctct tacgaagcta cgtgtgacct 300  
aacattctcc agattgttgt ttatagcctc ttcttagatt tacgatttgt gagcttgtga 360  
agatttcttg gnangaatta gagttctctg ttctgagatc gagatgaata ataataataa 420  
taatagagga agatttccac cggggattgg tgcggcgggg tcctgggtccg ggattctaata 480  
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<210> 7217  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-E5

<400> 7217

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agaacgatgc tcttcgcttt ggtcttcacg gcgttaagag cgatattcctt agatctcatc 180  
ctctcgaaac ggcttacgaa tctgggaagc aatcacaaga agaaatgaag aggagagtga 240  
tcacgcatac ttatggagct gctcttcctt tgaagatgga tcttgataga caaatccttt 300  
ctcggtttca gagacctcct ggaccaattc cttcatcaat gcttggcctt gaagtctaca 360  
caggagctct agataatttt ggttttgagg attacttgaa tgatcctcgc gaatccgaga 420  
cgctgnaacc antagacttc accacgggat ggg 453

<210> 7218  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-E9

<400> 7218

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ttcgtgtgtt ctctcattat tccatctctc ttatcgccgc tacaaacgtt tcttcttcaa 120

cctcggttcag agattatcct cccttctttt ctcatcttac aaggaagttg ggcagttaaa 180  
gctgctggga tcaccagttt tgtcaaaagt ggagtgtgaa gaatctttta tgtctgaaca 240  
ggcttctctc tttcaatcat ctatccggct tttaggagag tactgtccta tatctaggaa 300  
aaagtccact cataaagttg gtggtttgcg ttttgaggag gacatcacga gctgtattgg 360  
gatttcaagt ttatgcaact gagtgattat cactgcctct tccggacatc ccntgggttg 420

<210> 7219  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-F11  
<400> 7219

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ataagctgaa gtaagaggaa gtgatgtttt ctcttatgtc tggactatgg agttacatgt 180  
ttagcaagac tgagtttaat gtgcttattc ttggtatcga caaagctggg aagacgacat 240  
ttttggagaa actgaagacg atatactcaa tctcggaagg tcttctcat gatcgaattg 300  
ttcctactgt ggggcttaat attggtcgca ttgaagtctc caatgctaaa attgtgttct 360  
gggatctggg aggtcagcct ggggttgcg tctatttggg agaaatacta tgaagaagca 420  
cacgcgttga tatatttgat tgatgcaact tgcccaaccc gccttgggaag atcctaaatc 480  
tgccttagaa a 491

<210> 7220  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-F12  
<400> 7220

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gggaatcggg caacgtctc aagtttatca tagatcttan ggtttctaata caagatattt 120



gattcatcaa aatcaccaac tagggtttac aaagtccatg cttttcgatc attgatcaga 180  
gagctttcaa gaaatatttg caagaaaatg gcaatggctc cagtaataaa gctggcttta 240  
ggttcagttg cctttgccat tttctggata ttagcagtgt ttccctctgt accattccta 300  
ccaattggtc gaaccgccgg ttctctgttc ggtgcaatgc taatggttat cttccaagtg 360  
ataaccccg g aacaagctta tgcagccatt gatctccga tactcgggcc tctccttggg 420  
acgatgggtg ttagtaaaat acccttgana aaaccggata tgttcaaatt acnttangga 480  
caattgcttt cgtgggaaaa anc 503

<210> 7221  
<211> 515  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-F2  
<400> 7221

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cttcacttca gaatcgagag atgagtaaac ggaatccgaa gattctgaag atttttctgt 180  
atatgttact tctcaactct ctctttctca tcatctactt cgtttttcac tcatcgctgt 240  
tttcaccgga gcagtcacag cctctcata tataccacgt ttcagtgaat aaccaatcgg 300  
cgattcagaa accgtggccg atcttacctt ctacctccc atggacgccg ccgcagagga 360  
atctaccaac tggctcctgc gaaggttact tcgggaatgg atttacaag agagttgact 420  
tccttaagcc gaggattgga ggaggaggag aaggaagctg ggtccgatgt ttttacaagt 480  
gaggacaatn caagagttcg attttgtgaa gggaa 515

<210> 7222  
<211> 510  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-F3  
<400> 7222

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gtccgcccac gcgtccgcgc tttcgatggt cgaaatcagt tggtaaagag gaaactctga 120  
aagttgtggt aaaaaaaaaa ctagaatcat ggcggcgtca atgacgaaac ccatctcaat 180  
aacttctctc gggttctatt ctgatcgaac gaacattgct ttctctgatt gcatttcgat 240  
ttgttctgga ttcagacatt cccgaccatc ttgcctcgat ttggtcacaa agtcaccgag 300  
taataacagt cgtgttttac ctgtcgtag tgcccaaata tcttctgatt atattccaga 360  
ctcgaaatct tacaagggtg aagcaattgt cagaccatgg agaattccagc aagtttcac 420  
ggctttactg aaaatcgga ttcgaggtgt tactgtttct gatgtgaaaa ggtttggtgc 480  
acaaaggagg ttctaccgan agaaaacggt 510

<210> 7223  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-F4  
<400> 7223

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agatcgaaga cgacggagca gttacaagag gaggttggtg accttaaagg tgagctcttt 180  
atgcttcgtc tccagaaatc ggcaaggaat gagttcaaat ctacgcactt tcgtcgtatg 240  
aagaaacaag ttgctcggat gttgacggtt aaaagagaga gggagatcaa agaagggata 300  
aagaaaangt tgtcnangaa acttgacaga caatggnaga aaagcatagt accaagacca 360  
cctccgtctc tgaagaaact tcaagcagat ttagcagctt cagctgcttc ttctgcttga 420  
aaaaacccgc tattggatct aanggnctct tccctgntgt ttccctcgag aatgttngta 480  
aaccgccggt atttggttgg ntgaaa 506

<210> 7224  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations

<223> Clone ID: LIB24-091-Q1-E1-F7

<400> 7224

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tcttggacaa aatgttcata cttgatcccg agaggagact gactgtgtca caggcattag 180  
ctcaccatt catcactggc aagtgaacc acattgccat tttccctctc tgttgatca 240  
ggaaatgctg ttgtcctaga tatctgtaca ttaaatactt taattaccat tgaaggatct 300  
aatctttgaa ttttctctac cttccctctg ctgcctgaga gagctttggg tacaatgtcg 360  
acatgggtgg agttctcatt accgacgatt ctgaggggac tttactgggt ctctattgac 420  
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<210> 7225

<211> 421

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-091-Q1-E1-F8

<400> 7225

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gaacgatgcg gaagctctcg gtggctgagc tcttcagctc gaaaaagctt caatctttca 180  
ggtatatcag agaggaagag aacgacttgt gtgtcaagaa actctctgat ttagcttcga 240  
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ggataggggt tgggataaat ctccgtgagt gtgagttcgt tgatgaagat agcatcgatg 360  
atcttgtgca caagtctgaa gatgtcataa aggaatccaa cttccccgga tttctttccn 420  
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<210> 7226

<211> 512

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-091-Q1-E1-G12

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tgcgatctcc tcaacagtta tctcatctct ttcttggaag gagtccaatg ggttcgatgc 180  
cagggtcatt tgactcgcca aatgaacgat acaggaatct ctctcaccga agaagcgaat 240  
ctagctctag caatgctgac aaaaaaactg tatgagcttg acgttgaccg tatattacgt 300  
ggggaggaca ggaggacaac attgatgatt aaaaacattc ctaacaagta cacttcgaaa 360  
gatgcttcta tctgctaatt acgaagcaat gttaaggaac ntaagaattc ccttaatttg 420  
caattgacct caagaacaaa tgcattggtg gannatgcct tcaacaaacc taattgaacc 480  
cngaaaagga ttgtcccaat tttttaaggg ga 512

<210> 7227

<211> 506

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-091-Q1-E1-G3

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cagctcggag aaatcactga ggaggagctt aagctttatg atggctccga ttctaaaaag 180  
cccccttcta tggcgatcaa gggccagatc tatgatgttt ctgagagcag gatgttttat 240  
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atgtcatttg aggaccaaga cttgactgga gacatctcag gtctcgggtc atttgagcta 360  
gaggcgttac aagactggga gtacaagttc atgagcaagt atgtcaaagt cggaaccatt 420  
caaaagaagg atggagaang caaagaaagt tcagaacctt ccgaagcaaa gactgcctct 480  
gcggaaggtc tttctacaaa aaacng 506

<210> 7228

<211> 488

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 ggtgtcataa gcatgaattt ctgaaggatt tcttcttata tacgggccag attcatgagg 180  
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 gatctccatt gcacgggtccg cgcataaaac taatagagaa ggctagaaac cttttctccc 300  
 aaacaaagga acacactttc gagtctaagg ctgctgagga acatgcaaaa ctctgaaga 360  
 tacaacatga gctagaagct agtacgaagc aggctatctt tgttgattca agcatcaatg 420  
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 agaattca 488

<210> 7229  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 ggttgccgat ttggtttcgg cgccggtctt atcggagggtg tangattcgg accaggagtt 180  
 cctggattac aatttggtcn tggatttgga gctgggttgt ggaattggtg tangttttgg 240  
 ctatggtgtt ggaagaggag ctgcttatga tcaactctcg tcttattaca acgttggaaa 300  
 accatctctg aatgaagttg attcactgat tgatgaactt gttgttatca cgaagaagct 360  
 tgtgaaagct actacaaatg aaatccacaa gtgggtaaaa tgatgaactt ttaaggattg 420  
 ttgcagcttc caagtaaagtg gtantgtttg ggtttgttcc taaaattaaa 470

<210> 7230  
 <211> 434  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-A12

<400> 7230

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ccacagctgc tgctagatat gtccttcgc ttttaaaatc ttttatcaaa atgggtccta 120
aaggagcggtt gggagcgaca aaacttctcc gcccgttctc ggagatcggt gattctttgg 180
agttaaaaga cccgtttata cgaaactgga ttgatcttct cgcattcctg ctgcgagggg 240
tcaaactctga tggcatactt tcagcagaga tggtagccac ttatgttaac tgtatccttt 300
attccacaac atgtctaaca tggaaaaaag aaacaagatt atcatacttt tggtgcaaaa 360
gatcggttta aaatgaagtc tttgtttcct atgtgtgcag atctacaagg tttgcagaat 420
gggtacaagg ccng 434
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<210> 7231  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-A5

<400> 7231

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aaaantgggt aanacgtatt gtatcttacg angttgtntt gaacaagcta gcgttggtgt 60
ggtcgaacgt tggggtcgat tcgagcatat gggctgaacc gggatgtcat ttcttcaacc 120
ctctcgccgg tcaatggctc gccgngttc tctccactan gatcaaactc cttgatgtca 180
aaattgaaac caaaactata ggataatgtg tttgtgcagc tggtttggtc gattcagtat 240
cgtgtagtga aagctagtgc tgatgatgcg ttttatgaag cttcaaaacc ctaaagagca 300
gatccaagct tatgtctttg atgtgggttag ggctttgggt cccaatgatg acgcttgatg 360
ctctttttga anaaaatggt gaagttacca antctgttct tgaggagctt gngaangtga 420
ttgggtgctt antgggtaca 440
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<210> 7232  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-A6

<400> 7232

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agaactctcc gacaaaacct cgccgacgat tttccgacga tgaaagatgg gcttttttcgg 120
gagactgttc gggagtaaaa aaaagtctga taaagctgct tcgtcgagag ataaacggag 180
gtggagcttc accaccagat cttcaaattc cagcaagaga gctccggcgg tgacgtcggc 240
ttcgggtggtt gagcaaaatg gtttggatgc tgacaaacat gcgatagctg tggctgctgc 300
gacagccgcg gtggcggaag cagctcttac tgctgtcat gcggcagctg aagtcgtgag 360
actaacaagc ggaaacggcg ggagaaacgt cngtggcggt ggaaactcgt cggtgtttca 420
aataagaang aaataaccgt cggtngggct caaggagaa 459
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<210> 7233  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-A9

<400> 7233

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naagaagaac cggagacgat gacaaaggat tgctctggaa acttcccca gttaggatca 120
tgagacattg gcaaagttgg tccagctttt ggactcgggtg tcggttgagg atttggtttc 180
ggcgccggtc ttatcggagg tgtangattc ggnccannag ttcttgattt acaatttggt 240
cttggttttg gagctggttg tggaattggt gtaggttttg gctatggtgt tggaaganga 300
gctgcttatg atcactctcg ttcttattac aacgttggaa aaccatctct gaatgaagtt 360
gattcactga ttgatgaact tgttgtagc acgaagaanc ttgtgaaagc tactacaaat 420
gaaatcgaca antggntaaa atgatgaact ttaacgattt gttgcanctc caaagtaa 480
gggta 485
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<210> 7234  
 <211> 508  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-B1

<400> 7234

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ccagcttata gaagcatcng tgcggcagcg ttggctgcgt cagggagggtt agaagaagca  120
gttaaagaat gccttgaagc tgtgagatgt gatccttctt acgctagagc tcatcagaga  180
ctcgccttctc tttatctaag attgggagaa gctgagaatg cgagacgtca tctttgtgtt  240
tccggacaat gtcccgatca agctgatttg cagagggttg agacgcttga gaagcatctc  300
agactgtgta cggaggctcg aaagatcggg gattggagaa cggtgattag cgaaatcgat  360
gcagccattg caaatggagc tgattcttct cctcagcttg tagcttgtaa agctgaagcc  420
tttttgcggc ttcacatgat aaaggattca gatttgtgta tatccagcan tccgagaatg  480
ggttatcacc atactcaacc aacctgag                                     508
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<210> 7235  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-B10

<400> 7235

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cgggtccactt ctttgggcta aattcagggt tttgtgaaga atgggtaaca gagtaatctg  120
catgaagaag aaagatgttg ttatcanaag tggaggagat gggccagaa gcaagagagt  180
gaatcgttca cagaggaagt tgcttgctga tgaagagaat ttgcatcgaa gagctttgtc  240
tatggctatt catcaagctc aagtttctca agagatttga tggatccatg tctagacgaa  300
tcgggtctac tagctctaga agaggaacac tctctgactc attttctaataacangcagg  360
ttcctgagtt tttgggagan cttgaagggt aagaaattcg ttttgggtgca tggtnaaacg  420
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gtttgggggc atggtgtttg ggaacaaaaa cctantgccg tccatt

466

<210> 7236  
<211> 489  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-B3  
  
<400> 7236

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aaggacggcc tttgatgaag gaccttggcc taaaatgagt gcttatgaaa ggtcaagagt 120  
tttgttgagg tttgcagatt tggttgagaa acacagcgaa gagctcgcgt ctctagagac 180  
atgggacaat ggcaagcctt accaacaatc cttgaccgca gagattccca tgtttgcaag 240  
attgttccgt tactatgctg gatgggcgga taagattcat ggactaacia ttccagctga 300  
tggaactat caagttcaca cattacatga accgataggt gtagctggac agatcatacc 360  
gtggaatfff ccacttttga tgtttgcttg gaaagttggt cctgctcttg cttgtggtaa 420  
caccattgtc ctcaaaaccg ctgagcaaac acctctcaag ggtttctatg ctggaaaagc 480  
tttcntga 489

<210> 7237  
<211> 497  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-091-Q1-E1-B7  
  
<400> 7237

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atgagagagt tcaggtctgg ttctcccgt gttctcatca ccaactgacct cttagctcgt 120  
ggtattgatg tccaacaagt ctccctgggt atcaacttcg atctcccaac tcagccagag 180  
aactaccttc accgtatcgg aagaagtgga aggttcggga gaaaggggtg tgcgatcaat 240  
ttcgtgacct gtgatgatga gaggatgctg tttgatatto agaaattcta caatgtgggt 300  
gtcgaagagc tgcttccgaa cgtggccgat ctgctgtgaa gggagaaaag aagtcgggtc 360

tgttgctgtg tttgctctgc cgtactagta tcaccggaga agaaagggtt tcttgttttg 420  
 caaggcactc tttgatctga ttttgacccg tcgtctatca agcgatttac atttcttaaa 480  
 ttttctaant gttggtc 497

<210> 7238  
 <211> 450  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-C12  
 <400> 7238

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 agccgccttg tcggaatctc acatccgtca aatggaagac ggaaaagcta tccagctcgt 120  
 ccttgatcag agcactggat gtggatttgc ttccaaaaga aaatatctat tcggacgagt 180  
 gagcatgaag atcaaactca ttcccgagga ctctgccggt acggtcaccg ctttctacat 240  
 gaactccgat acggccacgg tgagagacga gctagatttt gagttcttgg gaaacagaag 300  
 tggtaaacct tactcagtgc aaacaaacat atttgctcat ggcaaaggag atagagaaca 360  
 aagagttaat ctttgggttc gaccatcta tggattacca cacttacact atcctaaggg 420  
 nacacaaana caattgggtt ttancgtaaa 450

<210> 7239  
 <211> 509  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-C2  
 <400> 7239

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 agcaaacanc attagaaaag agatgcaagc aattcacatc gtgacgacgc gattgagctc 120  
 aagctttatt aggctgttc ttcttgactt cgtttcntgt tcgcctctac gccagttctc 180  
 tacccttang cgctttatct gtgccgcgag caagggtcaat ggaggaggca ggtcaggttc 240  
 gattgttgct ccattggtag tgaatgaaga atttcagaac atcgatgtca atcctcctaa 300

aggaactcgt gatttccctc ctgaggatat gcgactccgc aactggctct tcaaccactt 360  
 caaagaggtc tcacggttat ttgggtatga ggaagtggat tttccagtac tggagacgga 420  
 ggcattgttc atcaagaaaa gctggggagg agattagaag accaaagttt gtccttctac 480  
 gtttccgant tcactngttt aactaagct 509

<210> 7240  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-C9

<400> 7240

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 ttcttttaac cacactcctt gcttgagatt caatcgaaaa ctgaaattcg caagcctcca 120  
 ctgctcgccg tcgcactcat cggaatattc cattggcacc gtactaccct gaaatcatct 180  
 catcagatca aaacgggagt ttaactagaa ttgcgtggat taatggggaa gaagcagagc 240  
 gagatatctg caatggagat cgacgatccg aaatctgaaa gctcggatca gatccttcca 300  
 aggtttctga tcaatgttct gcagctgatg aaatcttctc aggcgcaaca tggctctgct 360  
 catggtgact atgctcgcta tcggagggtat tgctccgcac gtttgaggag gttatacaaa 420  
 gtccttgaaa ttcactcatg ggccgtggaa aatacactcg aacgaggcca ntc 473

<210> 7241  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-091-Q1-E1-D2

<400> 7241

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 ctcatgtagt ggagattcca gtagatgaag agcataaaga gagacaacaa caacaacagt 180  
 tggttgctgt ctcaaattccg ggaatgggaa tactcaaagt gattcagcag catccgttgt 240

ctgaaatctc agagagtcca ggacatttgt tgcttttgaa gttatggcaa agagaagaag 300  
 atttgttctg tcgtcgtggt cttcttaaag aatcaagact aagagtcaat caaaagagag 360  
 atctttcagc tttgttggtt cttcctagtc ttccatgggt tcttcctcac acttgtctac 420  
 tctctntect tggtccgatg aagcctgacc tggtgaaagt tantccg 467

<210> 7242  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-090-Q1-E1-H9

<400> 7242

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 atcgggttggg tgatcaagac cttgataaaa ctgggtgttca ccaagatgcg tttgtgcttt 120  
 gtaggatttt tcagaagagt ggctccggac ctaaaaatgg agagcagtac ggtgctccgt 180  
 ttgttgagga ggagtgggag gaggaggatg atatgacatt tgtacctgac caagaagatc 240  
 ttggaagtga agatcatggt tatgtccata tggatgacat tgatcagaag tctgaaaact 300  
 ttgtggtcta tgatgccatt cctattccgt taaactttat tcacggggag tcgagcaata 360  
 atgttgaaac aaactactca gactccataa actatataca acaaacagga aactatatgg 420  
 acccggtg 429

<210> 7243  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-090-Q1-E1-F5

<400> 7243

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 gaaaggaggg aacattgagc tgagtccagt ggagaggtca accaatgatt cacgcattgt 180  
 ggttcacact cagactctgt ttgatattgt gaatgatggg taccgatggc gtaaatatgg 240  
 tcagaaatca gtaaaaggca gcccatatcc aaggagctac tatagatggt caagccctgg 300

atgccccgtc aagaaacacg tagagaggtc atctcatgac acaaagttgc ttataacaac 360  
 ttacgaggga aaacacgacc acgatatgcc tccaggaaga gttgttactc ataataacat 420  
 gctggactcg gaagttgatg ataaag 446

<210> 7244  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-090-Q1-E1-G1  
 <400> 7244

ttctcaattc ctcaatcctt actctcttcc agggttaagat cttatatgaa atgatttgct 60  
 aagaggacta taagtctcgg tgatcgggga attcgatatg gaggagagtg aaacaaaggg 120  
 gagaatcagt caagaaactg ataaggcttg tgtttcagtt gagagaattg ggtctacttt 180  
 actctcatca tttgtgaaga aaggtaaaga agtatcaaatt aagagaaatt ctaagcagaa 240  
 taagcgaaaa gcggaagaag aactctgttc gaaatcaaga accaagaagt actctcgggg 300  
 atgggtccgt tgtgaggaaa tggaggagga gaaggttaag aaaacaagaa agaggaaaag 360  
 taagagacag caaaaggata ataaggttga ggttgatgat tctttaaggt tgcaaaggag 420  
 gacaaggtat ttgctcatta aagatgaaga tgcagcag 458

<210> 7245  
 <211> 443  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-090-Q1-E1-G10  
 <400> 7245

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 atgaatgagc attactcttc ttctgggttt tggctcgagg acgacgatgg acttacctac 180  
 gatcagttgg accagttctg gagtgaactg tcgtcgaaag ctaggcata gcttcttagg 240  
 attgacaagc aagacactgt ttgagcaagc tcgcaagaac atgtgctgtt ccagatgcct 300  
 tggactgttg cttgaaggct tcgccaaga ttctttctgc tgggagggcc gcgtacgaaa 360

aaagaatgat gggaccctcc aaagataact gtaaactctaa tggcactagg aaatgtacgg 420  
 ttgcgtacca gaaccctcct gtt 443

<210> 7246  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-090-Q1-E1-G11  
 <400> 7246

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 aggaatcgat ctctggttcg agctctagtt agtcggcggtt acttcgcttc atcgccggag 180  
 gaaatcgcaa agagaaatta cgccaacgat ctgtcgggaat acaacaccgc tgtcaactcc 240  
 gtcacagctc agcgcaggca ctatttgctg agggatgttt atgatgatat gaagcttgat 300  
 ggtgtgcagc ctacagctga tatcttccat tcatttgctg tgggaacgat gaagggtgct 360  
 cggttaagcg atgcgttctt tttccgggaa gaaatgaaag ccatggggat tgctccaaat 420  
 nt 422

<210> 7247  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-090-Q1-E1-G5  
 <400> 7247

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 gtccccgccg agaatcgaga agcagcagcc atggccgacg tagttcaata ccgcctcgag 120  
 cggatggttg acgagcttga tgatctagaa cgaagagaaa tcttcactcg tgctgagata 180  
 gctgagatcg tgaagcagcg gcgtaagttt gagtaccggc tcaagcgtcc aagcccactc 240  
 aaagaagatt tcatagccta tattgactat gaggttaagc tcgatgagct ccgtcagcta 300  
 cggaggaaat cgggtggcgcg tgtgactaag aagagaaaga agaaatcagt atctgatttc 360

gccggtgtgg ctaggattgt tgagatttat agattggcga cgatgaggta taaaggatgat 420  
atcaatttgt ggtttaagta tctcgagttt tgtaaacaga agaagcatgg aagaatgaaa 480  
aaggcattgg ct 492

<210> 7248  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-090-Q1-E1-G7  
<400> 7248

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ttaagaagag tcttagcaat accgttgccg ttagccaggt gagaatcctt aagcgcggcg 120  
aagaaatccc caaggagact tcagatctgg ttgtggaaat gtcagatctg ggatctactc 180  
gtcggattgg accagatccg ggtttgattc cgggtcagat ccgtttatct ggccgcaaata 240  
cgaaatcagc accgttttac gccggtcctg tgaccatgac ctgcgcgcct cctaagcgat 300  
gtcccgttcc cagctttctt cacgaaagaa ggcaacaaat gatctcatca aggatcttcg 360  
cctagacatc gcctgacggg gtctgtcacc gatcattttt gatttttttaaaaatcctcc 420  
cgatgattca aatggttacc aagagtgtta 450

<210> 7249  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-090-Q1-E1-G8  
<400> 7249

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atgaatgagc attactcttc ttctggggtt tgggtctgagg acgacgatgg acttacctac 180  
gatcagttgg accagtctcg gagtgagctg tcgtcgaaag ctaggcata gcttcttagg 240  
attgacaagc agacactgtt tgagcaagct cgcaagaaca tgtgctgttc cagatgcctt 300  
ggactgttgc ttgaaggctt cgcccaaatt ccttctgctg ggaaggccgc gtacgaaaaa 360

agaatgatgg gaacctccaa aagataactg taaatctaataa ggcactaaga aatgtacggg 420  
 tgccgtacca gaacctcct gttcat 446

<210> 7250  
 <211> 486  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-090-Q1-E1-G9

<400> 7250

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 ctaaccaagt tgggcacttc cagaaagttc ttacatccat tggaaacttc tgtatctgtt 180  
 ctattgctat tggatatagcg attgaaatag tgcgtcatgta ccctatccaa caccgaaagt 240  
 acagagatgg aattgacaat ctcttggtcc tcttgatcgg tggatatccc attgctatgc 300  
 ccacggtctt gtctgtgact atggctatcg ggtctcacag gttgtctcag caagggtgcta 360  
 tcaccaaacy tatgacagcc attgaagaaa tggcgggaat ggatgtcctt tgcagtgaca 420  
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 tgcaag 486

<210> 7251  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-090-Q1-E1-H11

<400> 7251

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 taactacagt tgggatccag tttctgaata tctatctttt gttgacaatg gcaatttttc 180  
 tgttgatggg atgctctctg attttccttt aactgcatct gcatctgttg gtaagaaaat 240  
 tatcttctac agacaaaata ttatttctta atacattact tgtaatactc aaaatcaaac 300



attttatattt tgtatttctt cagactgctt ctcccacatt ggcagaaacg ctacaaaaca 360  
 agtggatttt cttgttatat caaaaaatgg tgcaagtggg gagtatcctg gatgtacaaa 420  
 attggcatat gagaaggcaa tcaaagatgg ttctgatgtt attgattgcc agttcaaatg 480  
 tcnag 485

<210> 7252  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-090-Q1-E1-H12  
 <400> 7252

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngaagagaa gaaatagaaa 180  
 aaccagattc aatctacctc cgggtaaatac cgggttgcca tttcttggtg aaaccatcgg 240  
 ttatcttaaa ccgtacaccg ccacaacact cggtgacttc atgcaacaac atgtctccaa 300  
 gtatggtaag atatatagat cgaacttggt tggagaacca acgatcgtat caagctgatg 360  
 ctggacttaa tagattcata ttacaaaacg aagggaaggc tctttgaatg tagttatcct 420  
 agaagtatag gtggggattc ttggg 445

<210> 7253  
 <211> 505  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-090-Q1-E1-H4  
 <400> 7253

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 cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnntggtat ttgctttgta tggttggttt gagatcaaaa tggcttcaag tgcttcaaag 180  
 ttcataaggt gtgtgactgt tggatgatgt gctgttggtg aaacctgtat gctcatctgc 240

tacaccagca ataaattccc cactgactac ataccaacag tttttgacaa ctttagtgca 300  
aatgttgttg ttgaaggcac cactgtcaat ttggggcttt gggacactgc tgggcaagaa 360  
gactataaca gattaanggc ttaaagttac aagggggaaca agaagttttc cgtcctggcc 420  
ttcccaaata atcaagccga acctagctac gaagaaatgt ttttaaaaaa gtgggttccc 480  
tgaactccaa cacttttgct ccaag 505

<210> 7254  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-090-Q1-E1-H6

<400> 7254

acgcgtccgt tcaaatttct ctcttttaa cctttctcaa tcatctttct tctgccttgg 60  
aatcctgata atggcgctgt cttctctcac ttcgaaatcc attctcggat ccaccaaact 120  
cggttcttct tctcttccct cggagctcgt tcgtctctct tctcccgccg ttcagatctc 180  
tctccgtacc caaaccagga agaacttcca gatacaagct actggaagtt catatgggac 240  
tcattttcga gtttcaactt ttggagaatc acatggagga ggagttgggt gtatcattga 300  
tggttgctct cctcgtattc cacttactga atctgatttg caattcgatc tcgatagaag 360  
gagggctggn cagancaagg atnacaactc ctanaaaaga gactgatact gccnggatat 420  
cgtccgggag gcctcggaag ggatgacc 448

<210> 7255  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-090-Q1-E1-H8

<400> 7255

ctctctctct ctctcgtttc caacatcatt ccattggctga cgatagcgaa ttgtatcctc 60  
gtttcttcaa agtgttcctc gttgaatcgg cttctgaatc gttgatgatt ccgttgccct 120  
ttatggcatt tcttgctgat ccattgccaa agacagtga gctccaaggt cttggaggaa 180

aactttggac tgtgagcttg aagaaaaataa gcggagctgc gtatcttact agaggatggc 240  
 caaaattcgc agaggaacat gagctgaaga acggagagtt catgacattt gtgtatgatg 300  
 gtcacgttac ctttgaagtg agtgtctttg attcgttggg gtagcaaaga ggtcagagct 360  
 gaaatacaag ccatacnact ttctgattct gacctgac cngttgtgga agacgaaaaa 420  
 gactcaactg atg 433

<210> 7256  
 <211> 408  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-090-Q1-E1-F2

<400> 7256

acgcgtccgg ctaaacatac tgataatagt ctcataagtg agctgtacaa gcaataggtc 60  
 tcatcaaaac accaaacctg ggacaacgca aaagaaaagc tctgcttcga ttgtcaatct 120  
 tgtaaagcgg gtctactcga caacgtcaaa agcgccttga agaaagttgc aatcgtaaac 180  
 atcgtcttcc ttgtcttccct catcattgtc tactctgttg gttgctgtgc tttcaggaac 240  
 aacaagaggg atgacagtta ttcccgtacc tacggatata agccttgaac atagttttatc 300  
 gggttttang acagagattc gttgatacat tgttggagtt tggttttntg tttgatgant 360  
 tttagcnttg gtgttttgat gagacctatt gccttgtaag ctcacttt 408

<210> 7257  
 <211> 470  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-089-Q1-E1-C1

<400> 7257

acgcgtccga gctaataccta tgtttaagtt ctgctccaag attgaaaacc atgaatacaa 60  
 gggaaaagga aaccaaagaa ctcgtaagaa gagagcttgt gagactgctc cacagccaag 120  
 gaatgtgaaa aagactccaa gattaggagt agagggacca gtgtatcaag ttgatgagga 180  
 gagaggacac actcagggtt caaacagaac caacaccatc tcaggaaatt tacagcgctt 240

gctaccacca tcgtgctcag tctccgatca ggtggctaata gtgaaacagg gcattgtaga 300  
tagtctgaac actgtgagac aatgtcggac tgagcttgag acaagtgaac aaaatctgca 360  
agcctctttg ctagcaattg acgccttaag ggagaggata tggggaatca gcaaaatcct 420  
cagcagtaat ctggtttgaa gtgagactga agatggggaa agaaacaaag 470

<210> 7258  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-089-Q1-E1-C6  
  
<400> 7258

ctggccctac cgnaccggaa attcccgggt cgacccacgc gtccgctaata gcacttgccc 60  
gcttgaaggc ctttgaagga gttcctactc catatgacaa gatcaagagg atggtcgttc 120  
ctgatgtctc caaggtcttg aggctgcagg ctggacacaa atactgtctg ttgggtcgcc 180  
tttcttctga agtcgggtgg aaccactacg acaccatcaa ggagctggag aacaagagaa 240  
aggaaagagc tcaagctgtt tatgagagaa agaagcaact tagcaaactc agagctaagg 300  
ccgagaaggc tgctgaagag aagcttggat ctcaattgga tggttcttgca cccgtcaagt 360  
actgaattca atcagtttat cgtatttgaa tgtttttgca agttttgctc agacattata 420  
ctattatatt acgaggtttt gttgtatgcg attttgacnt aagttaattt cttgaattcg 480  
actttacnta agttaattc 499

<210> 7259  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-089-Q1-E1-C7  
  
<400> 7259

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ctctgcaaaa ccacatacaa tggaagataa cgaagaagaa gaagaatcac cgacggagtt 120  
aaacacgata accggtttta gcggttttgt agttatctct cccgataagc tatctctcaa 180

atacaactggc gtttctcaac acggtcacga tgtcggcggtt gttcaagcta ataaacctgc 240  
 tccgtgtaaa cgtttcgctt attacttcga gatttatgtt aaagatgctg gtgttaaagg 300  
 acgtgtctcc attggtttca ctactaatag tttcagaatc gcgagacatc ctggatggga 360  
 actcaacact tgtggttatc atggtgaaga tgggcttata tatctaggaa aacgtcaang 420  
 tgaaaccttt ggtccgactt atacaactgg gtgatactgg ttg 463

<210> 7260  
 <211> 261  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-D2

<400> 7260

aaaccaccgt ggtttgaggc attactgggg tctccgtgtc agaggacaac acaccaagac 60  
 tactggtcgc agaggaaaga ctgttggtgt ctcaaagaag cgtaagaaa gatccaatgt 120  
 tgctacttac ttctgtattg gatacttcat aaggacctgt ttttatttcg tactaggacc 180  
 tttttgtgtg acgtttttcg agctttttgt gatcacatc ctctgttttt cnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnng g 261

<210> 7261  
 <211> 506  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-D4

<400> 7261

atggttcccg tgcctangcc tccggaatcc caggctgacc cacgcgtccg gcggtgcttg 60  
 ngactcaata ggtttagaat atcagatagg ttaaaccatc ataggtacac tcaagggttc 120  
 ttggagaatc ataaaggctc aacagaggat tactggcctc tctatgctgt tgctgggtggc 180  
 attggagtct ttatcagttg ggtttggtca ttgctgcttg gctcttacgc caatgagatg 240  
 atgaaagttt cggttcacat cttaacaacc tatctagctg tagttagtgt actatgtttc 300  
 tgggtgcagac tgttcttttg gggcggtgca ttcgctgctg gatctctgtt gcagttcttg 360

tatgttatttt cagttataga cagacttcct ttcacaatgc tggtcctacg gaaagcgctg 420  
aaattagtct ggggacttcc taagtgata atggtggcac atgctttcac agtagtcatg 480  
cttttggtgga tgtccccaat ggtcct 506

<210> 7262  
<211> 507  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-089-Q1-E1-D6

<400> 7262

ctgttcctctg gcctaccggt cgggaattcc cgggtcgacc cacgcgtccg cccacgcgtc 60  
cgcgagcttc ttcttcttct agggcttcca cgcgactacg cctgccaaaa tcattctaca 120  
ggaagcatga agccagtctt ctgtgggaac tttgagtatg atgcgcgcga aggtgacctg 180  
gaacgactat tcaggaaata cggcaagggt gagaggggtg atatgaaagc tgggtttgct 240  
tttgatataca tggaagatga aagggatgcy gaagatgcc aaccgagcact tgaccgcttt 300  
gaatttgggc gtaaggagc cagacttcgt gttgaatgga caaagagtga acgtggaggt 360  
gataaaagat ctggtggtgg gntcaaggag atcctcatcc ancatgagaa cttccaaaga 420  
ctctctttgt gattaacttt gatgcggata atactaggac ccgggattta agagaaaaca 480  
cttttgagcc gtatggaaag atctaaa 507

<210> 7263  
<211> 471  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-089-Q1-E1-E1

<400> 7263

acgcgtccga tactcgtttc ttctctcttt ggtttcatatc agatcccaaa tttctagggc 60  
tcctagtctt ttgatttctt cgactggaat cgcaattccc cactacgtca agctggacag 120  
acaccgaagg gatcgccatg agagtggcgg ctacgaggat tcctaccata accaccgagc 180  
ccatcccaga ggtccatctc gtcctcaga ttcacgcttc gaagaggatg atgatgattt 240

tcgccgccac cgctcgtcgtc gtggaagcag ccctagcaat tategaattg gaattggggg 300  
 cggaggagga ggtaatggtg gtcgacgctg ggaagatgac actcctaagg attttgatgg 360  
 tcccggagat ggaggtttcc ggcaaatgaa tgggtcccca natagagtan attttaaacc 420  
 taagggtcct caacaagggt gggaagtttt ccgnctaagg ggttttgccc a 471

<210> 7264  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-E10  
 <400> 7264

gtaccgctcc gaaaattccc ngganncagt tttagggttc ngtcgttctt attcactctc 60  
 gattcttcgc ttagcttcgt cttcttcac gaagatttat ctctacaatt cgctgtggat 120  
 cttcggggcg ggcgaatttc attgattttc cattgaatct gcgaggttac atatccggat 180  
 ttgtgttatc ggagctgaat ttaggaatgg aggtagagaa atccaagtat aggagcgaag 240  
 atttggatgt ggtggaggag gaggctgatt tgaagaagag tcggcgagat cgtgatcga 300  
 gtaatgagcg gaagaaggat aagggttcag agaagcgtcg agagannnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
 nnnaacgtaa ggagaaagga gaaggaaccg ganaacggag ggataaggat anggttgaag 480

<210> 7265  
 <211> 511  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-E3  
 <400> 7265

gtttgccttg nctagcctc cggaaatccc aggtcgaccc acgcgtccgg agagaatcaa 60  
 aaatcaaaat gtcttctcct actgcgacta agtacgacgt ctttctgagt ttcagaggac 120  
 tcgacactcg tcgcaacttc atcagttttc tctacaaaga actcgttcga agaaaaattc 180  
 gaactttcaa agacgacaag gagctcgaga atggccggag gatttctccg gagctcaaac 240

gcgccatcga ggagtcgaaa ttcgccgtcg ttgtggtctc tgtgaactac gctgcgtctc 300  
 cttggtgtct cgatgagctt gtgaagatta tggatttcga aaacaagggg tccatcaccg 360  
 tgatgcctat cttctacggc gtggatcctt gtcatttgag nnnnnnnnnn nnnnnnnnnn 420  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn agtancttcg 480  
 tggagacgag cattgaccaa tttagcgagt a 511

<210> 7266  
 <211> 515  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-E5  
 <400> 7266

taccgntccg gaaattcccg ggtcgaccca cgcgcccgcc cangcgctccg cggacgcgtg 60  
 ggctcgagac tgtagagtga agtttgattt atttagagag ataagttaaa aaaaaaatgg 120  
 tcggtatgga tttgttcaaa tgtgtaatga tgataatggg gttggttgtc tcttggtgtg 180  
 aagctgtttc tggagctaag ttcgatgagc tttatcggtc aagctgggct atggatcatt 240  
 gtgtcaacga aggcgaagtc aaaaaactca agcttgacaa ttactctgga gctggggttg 300  
 aatcaagaag caaataacttg tttggtaaag tcccaaccaa gattaacctt gttgaggggtg 360  
 attcagcagg aacaagtcca ctggcttcca acatgttctt caagatgggc ccgaaccaac 420  
 aaacgaaatt ccgatttttg agtttcttaa ggggaaacaa ctaaccggnc gaacccttac 480  
 ataagtccaa gaacaaatat cctacgttga acgga 515

<210> 7267  
 <211> 512  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-E7  
 <400> 7267

taccgntccg gaaattcccg ggtcgaccca cgcgcccgcg gacgcgtggg cgtgaacaag 60  
 gagccgtcac acctgttaaa aaccagggtg tgtgtgggtc atgctggtca tttagtgcga 120



taggagctct tgaaggagca cattttctag ccactaaaga gcttgtagc ctcagtgagc 180  
 agcagctcgt agattgtgac catgagtgtg atccagcaca agccaattca tgtgattctg 240  
 gttgcagtgg aggactaatg aacaacgctt ttgagtacgc tcttaaagct ggtggtctaa 300  
 tgaaggaaga ggactatcct tatacaggac gtnaccataa ccgcctgtaa attcnacaaa 360  
 gaccaagaat tgttnccaat ttngtccaac ttnaaccttg tcccctnccg gatgaaagaa 420  
 ccaaaatcnc ctgcctaate ctantccaac atgganctcc aagctaattg cctaacaatt 480  
 gcgaatgtng gaatgcaaac aatacataag ga 512

<210> 7268  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-F1  
 <400> 7268

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 ctttacaatg ttgtgactgc tcctatgcat caagtcaatg ccatagctct tgaggcgtac 120  
 aaaaagtaca tattggtgtc tctcattcac aatgggcagt ttactaacac tctccccaag 180  
 tgtgcttcta cagcagcaca gaggagcttc aagaactata ccggacctta cattgaactg 240  
 ggtaattggt acaacgacgg gaagattggt gaactagagg cattggttgt ggccaggaat 300  
 gcagaatttg aagaggataa gaaccttgga ttagttaagc aaagcaagtg tcatccccctt 360  
 taaaagccg taacaatctg agaattgaca cagaagttac ttnganccct ggtccgcttc 420  
 aagatatanc ccaacatggt ccaactttgg taatggctaa gganggcgga aaatgcatgt 480  
 tcc 483

<210> 7269  
 <211> 489  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-F11  
 <400> 7269

aactgttttag cctgnccgta cngctccgaa aattcccagg tccacccacg cgtccggctg 60  
attctcgcct tctcggtaag gttcaaggca tggaantcgg gctctctcta ggcttgaaaa 120  
gtgatgaagg aggcttaaaa ctttctcttt cggaatgtgg atgccatgtg gaagacatta 180  
ccattgagtt ggaaggagga gcatcanggt tttatcangg gatggttaat gcanttaaag 240  
accaanttgg gtcaagtgtg gaangtncca ttgccaanan nctcacggaa ggagtatcat 300  
accttgattc attcctacaa agccttccaa aggaaatccc agtggatgat aatgctgncc 360  
ttaatgtcac tttcaccant gatcctatat tgagaaattc atctatcact tttgagattg 420  
atggcttggt caccagagga gatacaantc aagtcttaaa atcnttcctc aanaagtctt 480  
tatcttaat 489

<210> 7270  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-089-Q1-E1-B3  
<400> 7270

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cagaggctaa tcatggacgc tgtggcggcg aatttgtttc aatctccttc cttactgcgt 120  
caaacttccg aaaggttgat attttcgacg cccaactgtc ctggcttcat gngaattagc 180  
tccggacctc aatttcgtct cagncaaaac tcttctctta aattctcgag accatttcaa 240  
agcggaaaca cttgtgttaa atctcggaga agctttgtgg ttaaagcttc agcttctggt 300  
gatgcttcaa cagaatcaat cgcgccgctt cagttgaagt ctctgtggg acaagtttct 360  
gtcacaagat attaagtgag ccacctcat cttgttccaa cagctgttga acagcagctt 420  
gaacagctcc aaattgatcg agacgtgaa gaacagagta aagatgcac ctctgtcctt 480  
gggaacaaac antgt 495

<210> 7271  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations

<223> Clone ID: LIB24-088-Q1-E1-E4

<400> 7271

aactgttacg cctgccttac cgtccgaaa attoccgnt cgaccacgc gtccgtag 60  
gtgtagctgg acagatcata ccgtggaatt ttccactttt gatgtttgct tggaaagttg 120  
gtcctgctct tgcttggtt aacaccattg tcctcaaac cgctgagcaa acacctctca 180  
cggctttcta tgctggaag cttttccttg aagcgggtct tcctcctggt gttctgaata 240  
ttgtttcggg attcgggtgca acagcaggtg ctgccctcgc gagtcatatg gatgtagaca 300  
agcttgcttt tacaggatcg actgatacgg ggaaagttat acttggttg ggctgctaac 360  
agcaatctta agcccgaac tctggaaact tggagggaaa tcaccgttca ccgtattcga 420  
agatgctgat attgataaaa gctgtaaacc ttgcanactt tgccctcttc ntcaaccaag 480  
gggaatgttg ctgccccg 499

<210> 7272

<211> 434

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-088-Q1-E1-E6

<400> 7272

aaaagggaattt attaccagac aagagtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnng aaaatctaga agaagagaaa gctacaaaaa 120  
tctcaacatc gaggtaagag ttttggttac agagcaacca tgctaacttg cgccttctcc 180  
caaaatctta tccactaatc tcggttaagga aagtgatgtt ggcaaaatgg tgaagaaagg 240  
aagttggttt tctgctatca aaagggtttt tactccacat tccnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnttttg ggaagctaag 360  
gcatggcgag accaattcat ttcttcccat cttcagagag cctagtanda tccaaaagat 420  
ctgggcgaag gctg 434

<210> 7273

<211> 503

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-088-Q1-E1-F2

<400> 7273

gaactgttac cctgcctgta ccgggcccga aattcccgga tcgaccacg cgtccgtcca 60  
cttcgatttt tcaatcagta atattggtgg ttcagagatg atgatgatga atcttttaag 120  
gagatcagcg atagccatcg gccgccaatc aaaatcgaaa ctggcgctcg tttcctccgc 180  
tacacaacct tgttccggaa tcccaaaatc gtccaagagg gtttttagca actcatttct 240  
ttcaaaggac tctactggag ctaatggact attgtttcgc ttccgaaacc cgcaagcaag 300  
tatatgtacg gaagctcgtc caaagaacat caactcatct tactttacca agatcttttg 360  
catcaagaac ttcaaaagaa cctgggaatc agcagaataa ggctaagaaa gangtgacga 420  
ctgtgggagg atccttttga ttctctaca taccacatcc ccggagaanc cnggtgacct 480  
ttacagaang ggcgctctaa agt 503

<210> 7274  
<211> 492  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-088-Q1-E1-G1

<400> 7274

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ccgtgatcac cggaaaatct tagccgtccg atcaaccacc gtgtactccg agaagatctc 120  
ttcgattact tcaacgttct tctgattttc accagctcag atctccgaca acattccggt 180  
atcattttctc gctttttttt cctccaaatc cttatccgcc agattacgaa aatgaggagc 240  
ttgatccgag agaggcatag tgaaagctta tctgtgaatt cttaggattt gaatctgaat 300  
actcaggctt ttgattcct tctccgttac atgntgattc aattttgagc tcccctgcta 360  
gngtaaatct cctcagctcg gaaacttagg ggtttagttt gggggtcctt ngctcttccg 420  
ttgcgtaagg ccaggtttta agaaaatcag gaaaagggtgg ggcacgaaan agcccctcca 480  
aanccccgag gg 492

<210> 7275  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-088-Q1-E1-G2

<400> 7275

aactgtttac gctgccttt accgggcca aattcccggg acgaccacg cgtccgggcc 60  
attggccata gagctctcgc tgcctcctac agccgaatcc gagaacaagt ttgtttatac 120  
tcatggacat gacgctacta ctactggat ttggaaacta gccaaagctc atgtctgctc 180  
aaatgatgct ggtgttcacc aacttgtaga cactgggcta aggactcatg cttccatgga 240  
gccttacatc attgctacta acagacagtt gagtacaatg catccggttt acaagctact 300  
tcatcctcat atgcgctaca cgcttgaaat caatgctcgt gcgcgtaaaa gcttaatcaa 360  
cggaggagga atcatcgaaa gttgcttcac tcccggaaaa tacgcaatgg aacttaactc 420  
tgcancgtac aaagaacatg tggcgatttg acatggaaag gacttcctgc tgatcctgtt 480  
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<210> 7276  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-088-Q1-E1-G7

<400> 7276

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acttcggctc agagtgacaa ngactanaan gagccaccac ctgcgccgtt gttcnagccc 180  
ggcgaagcta gttcatggt ctttctggag agctgggatt gctgagttta nagctacgtt 240  
tttgttctcg tacatcactg ttttgactgt tatgggtgtg aagangtcac cgancatgtg 300  
tgcttccgtc ggaatccang gtatcncttg ggctttcggg ggtatgatct tcgctctcgt 360  
ctantgcacc gcctggatc tccgggtgga cacatcaagc ccanacggtt acgttcggtt 420  
tgttcctagc tangga 436

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 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-088-Q1-E1-H4

<400> 7277

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tgatgattac cattcnttgg ntaggtacgg tatgaaatag cagaaagtca ccgctttgga 180
cccacgcgcc aatgactttg atctcatgta tgancaagtc aaagctctta anaatgggat 240
agccgtcnag aaaccgattt ataaccatgt cactggactt cttgaccctc cggagcttat 300
tcagcctcct aagattcttg ncatcgaagg tcttcacca atgtttgatg aagcgagtan 360
gagacttact agacttcagt atctacttgg gncattangc ancgaaagtc aaattcgcct 420
gggaaattca nanggacatg gctganaaga gggcacaatt tggnnancat caaaggnaa 480
ttacgaaagc ccgaanagcc 500
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<210> 7278  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-088-Q1-E1-H5

<400> 7278

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caaaatcagt cttaccgca tcgtgatcgt tcttcgcctt gtgatcttag ttttcttctt 120
ccgtttccgt atcttgacac cagccaaaga cgcataccct ctctggctta tctcagtcac 180
ctgcgagatc tggttcgctc tctcttggat ccttgatcag ttcccgaat gggtttccgat 240
taaccgagaa acctaccttg accgtctctc tatgagattt gaacgggatg gggaaaagaa 300
caagcttgca ccggttgatg tgtttgtcag tacaatggat ncgctcaagg aaactcccat 360
aatcanagcc aacacaantc cttcnathtt anccgttggg taaccagtgg aana 414
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<210> 7279  
 <211> 525  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-A1

<400> 7279

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tgctttctgtt tcaaatatgc attccattta tcatcgagca tttcagactt cggaccacaa 180
ttaagtcocct tctacgctgc tggttcactg ggggttggtt ggcgcttggt ttaacagact 240
tcctcttgcc aagaccagaa gacaacattg gtcaggacaa tggaaatggt gaaccaggaa 300
ggcagaacag agcacaagtg ttgcaggctc gaggaacctga cagggccatg gctgcgcttc 360
cagtagctga tgaccctaac agaagtcgcc tccgtgctgg gaatgtcaac acggggtgag 420
gaatatgaag atgatgacga acaatctgat tctgaacagg tacaaacttt tgtgggtccc 480
gataantctc ccttcnactt gttgcatggg tgactcctcc tcccc 525
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<210> 7280  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-A11

<400> 7280

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anaantgccg gcggcaanan ggnactcatt gtttctanat ctatgtatca tatacatccg 120
taacaatcgt aagaatcaca ctagttcctt ctaacctttg aatactagtg tgcttttgtc 180
cgtcagtcgc ctttttgttt gtagccaaat actaaagctg gatacaagtt gcagtcttat 240
gatagttcta aaatcggtaa tgggtgatgt cggcttgtgt gtgtctgtga agtanagata 300
tagctgtaat ctgtatacag tttgagatat gaagtcagtt agagtttctc ctttttacta 360
ttacatatgg cctcttttga tgctcttaag gtctgagaga gccaccatgc tactcattgt 420
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ttctatatct atgtatcata tacatccgta acaatcgtaa gaatcacttc gtattaaaaa 480  
 aaaaaaaaaa 490

<210> 7281  
 <211> 427  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-A8  
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 cgggtggaac cactacgaca ccatacaagga gctggagaac aagagaaagg aaagagctca 180  
 agctgtttat gagagaaaga agcaacttag caaactcaga gctaaggccg agaaggttgc 240  
 tgaagagaag cttggatctc aattggatgt tcttgacccc gtcaagtact gaattcaatc 300  
 agtttatcgt atttgaatgt tttttgcaag ttttgctcag acattatact attatattac 360  
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 ttaattc 427

<210> 7282  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-089-Q1-E1-A9  
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 ccttgttgac tcttctctct aatttgaaga acttcgtagg ctaagcatgt cgtgattatc 180  
 ccaaatttct ggtgtttatt caaactccat tgttacaaag attttctttg ataagttaaa 240  
 gcaatgtata cctccgaggc agcccctgat tttgttggtg accagggcat gtattacccc 300  
 gttgatgccg gttatggcta ttactgtaca ggttatgagt caccgggtga ttgggagaac 360



catcagatgt tttttggtgt agatggttca gaagtccaat acacaggtgg gcagaatgaa 420  
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<210> 7283  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-089-Q1-E1-B12  
  
<400> 7283

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tgttcttcat ttcaagccct agcttaagtt taatccgtta atccttattc attaaaggg 180  
tttgattcct acctttgttt ccgcttcctt ccctccgaaa ttttgcaaat tccgttatta 240  
aaaggatcct aagtttttcc ggctcttgta ctacgtcaaa gtttcaaggg attccccgaa 300  
gtttcgattc ttttcgtccg tgcaataacc gtgtcaagct ttaagtcctg gtctgcttca 360  
tcaccaagtg gacttttccg tttgcaatta cgaattcnaa ctgggttcgaa tccaatttaa 420  
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<210> 7284  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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gccgacgtag ttcaataacc cctcgagcgg atggttgacg agcttgatga tctagaacga 120  
agagaaatct tcaactcgtgc tgagatagct gagatcgtga agcagcggcg taagtttgag 180  
taccgggtca agcgtccaag cccactcaaa gaagatttca tagcctatat tgactatgag 240  
gttaagctcg atgagctccg tcagctacgg aggaaatcgg tggcgcggtgt gactaagaag 300  
agaaagaaga aatcagtatc tgatttcgcc ggtgtggcta ggattgttga agatttatag 360

attggcgacg atgaggtata aaggtgatat caatttgtgg tttaggtatc tcgagttttg 420  
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<210> 7285  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 agctcaaatt ttgggtcttt tatatatatta tttcttaaag ttacaatctt tttgattgtg 180  
 gtttcagtgt acgaacacgc aagaactcgc gtgaaaaaaaa ttgtatccaa gtttcgtgaa 240  
 aggagtctct ctgtatttag tggcgttttg ttctgttggt atttctgaaa tattgaagct 300  
 tttgatttgg gtttcaagag agcagagatg tgtagtttgt cggcgattat gttgttacca 360  
 acgaagctga aaccagctta ttcagacaaa cgggagtaac agtagcagca gcagctcant 420

<210> 7286  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-088-Q1-E1-B2  
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 tcnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt ttctgggttt cgatttttggg 180  
 tgagagataa caaaccttag gtgttggtga aatcgtgatc acatatatgc tttttgagtc 240  
 gacgattaga gaagacgaag aagagtagca agcaaact atgatgaaca cttctaattg 300  
 aatgatatca gcgccatctt cgtcgtcttc accggcggcg aatcctcagt cgccgggaat 360  
 taagacttat ttcaagacgc ctgaaggga gtataagctt cactacgaag aaaacgcatt 420

cctccnggtc cccttcaata cgcacatggc aaaactgtta ctcaggtaac tatagctcaa 480  
 cnta 484

<210> 7287  
 <211> 493  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-088-Q1-E1-B4  
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 acttgaatca gctcggcttc agtancgttg gttatgggtg caccacatgc attggaaact 180  
 cgggggatat ccatgaagct gtggcttcag caatagttga tnatgacttg gtggcatccg 240  
 ctgtgttgtc tgggaacaga aattttgaag ggacgtgttc acccgtaac aagagctaac 300  
 tatctagctt cccacccgct tggtgtancc tatgctctgg ctggaactgt ngacattgat 360  
 tttganacac agcccattgg aactgggaaa gatggaaaac agatattttt cagggacatt 420  
 tggcccnac ncaanaaatt tgcggaggtt ttcaacccaa nngncctccc gggaaaggtt 480  
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<210> 7288  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-088-Q1-E1-B6  
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 agtttctctt tcgattcagt cggaccggaa aaacantggc gtctgtgaac ctttcgatc 180  
 tcttggaaga tgacgcanag gatcccagcc agattgttgc gtctaagcca ttgaaagttg 240  
 tggctccggt tcagactgag aagtctggtg agatgccgac taaaccgcct cntcctctc 300

angctgtgaa gggaggcaan ggaacntcct nggtggaggtc nggtgctggc cgtggaggga 360  
gttatgggtcc tgggtgcacct ggtggaanca tcagggattc aggaacaat gaatggnc 418

<210> 7289  
<211> 501  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7289

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ggaattgaag ttaaatcang aaagccagtt acagtgactc ctgaanaagg cattcttata 180  
cacgtttctc aggcacgcct tggagaatgt aaaaacaaga agggagagtt tgtgccttta 240  
catgtaaagg ttgggaacca gaacttggtt ctgggaactc tatcgactga gaacatccct 300  
cagcttttct gtgatttggg attcgacaag gagtttgagc tttctcacac ttggggaaaa 360  
ggaagtgttt actttgttgg gatacaaaac tcccaacatt gagccacaag gctattctga 420  
ggaagaagag gaagaagagg aagaaattcc tgccgggaat gctgccaagg ctgtanctaa 480  
accaaaggct aaacctgcaa a 501

<210> 7290  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-088-Q1-E1-C7  
  
<400> 7290

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tctcttttga tccattccat tcccatgttc cccaatttct ttaatcggtg ttgcttccac 180  
aaggcttcat gagcttgtat aacaagtttc tctaggaggt gttaaagagc cagatcaagc 240  
tttcagaaga gattttctta ggggtggtga gagctgaaag ttttgatatt tagtcaactt 300

tggtccactg aaccttctag gaagctacct caagtagaca gctttgttga cgggcttcaa 360  
gccagtggta aagatatgct tctgtagaag ggttaatctt gagcattaaa ggacatggct 420  
ttctactctg aagacgacaa gagcgaagac tacctcttta agaattgtcc taatcgggtga 480  
ntctgcctgt 490

<210> 7291  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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gtgagattgt ttttggtact tagaaaatgg atacaccgga aaagagtga acccagatcg 180  
gtactccagt ttctaaactc aaagtcgagg attcaccagt gtttagttac atatgcaatc 240  
tctcaccaat tangactatc aaaccaattc caatcaattg tcctttaagc tctctcaatt 300  
acgcatctcc ancttctgtt ttcacttctc ctacgctgt ttctcataaa gagtctcgtt 360  
tcagaagtca aaangatgtg tctgcttcta aagaagttgg agaataagaa gctttagtcc 420  
gtancg 426

<210> 7292  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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gccagaatcn atataccatt tgcgcattgg cttggcctca tttgcctcct accccttcgc 180  
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cttctangcc cgctctcttg tcgctgagag aanctccttc aacangctca acttgcagtc 300  
 ttgggtgata cctanatata atctacagta cttgttaaaa tggaggaaag aagcgatcaa 360  
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 ggtctc 426

<210> 7293  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-088-Q1-E1-D5  
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 cgctaagtat aagctggtgt ttctgggaga tcaatccgtc ggcanaacca gtatcattac 180  
 tcgattcatg tacgacanat tcgacaacac ttaccaggcc acaattggta ttgattttct 240  
 atcaaagaca atgtaccttg aagatcgaac ggtcagactt cagttgtggg atacagctgg 300  
 gcaagagcga ttcaggagtc taattccgag ctatatcagg gattcctccg ttgctgttat 360  
 tgtgtatgat gttgcaagca ggcagtcctt cctaaacact actaagtgga tcgatgangt 420  
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 ntgga 485

<210> 7294  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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gatcgatgga gaaatctacc aaatgtgctg tttgctacaa gtcgtttcgt ccctcaatct 240  
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aatcctcngg aagnttcnta attcaaaata aattgggttaa ntngtaanaa aggagaaggc 360  
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aaaagcttaa gctacaag 438

<210> 7295  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7295

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aagaggagat gatatagtgg acgtggtgca cttaactcac ctgacgacgc cagaatccat 180  
ataccatttg cgcattggct tggcctcatt tgccctctac cccttcgctt atagatgggt 240  
catgcgcctt ttgtggcctt tcacctctct ctccatgata ttcacgctct tctacgcccc 300  
cctctttgtc gctgagagaa actccttcaa caagctcaac ttgcagtctt gggtgatacc 360  
tagatataat ctacagtact tgttaaaatg gaggaagaa gcgatnaata acatgattga 420  
gaaaagcgat actgganggc anattagaaa ggagttaagg tgcnt 465

<210> 7296  
<211> 428  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-088-Q1-E1-D8

<400> 7296

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cacaatgatt acgagtacta cgttcattac acagagttta atagaagatt ggatgaatgg 180

attaagcttg aacagcttga ccttgattca gtagagtgtg ctttagatga aaaagttgaa 240  
gacaagggtga ctagcttgaa gatgaaatct atcgaagctc tactttgtca atgtttgagg 300  
tggatggcaa gaagaataag gtctatgcac agaacctctg ttatctggca aagttatttc 360  
ttgaccacaa aactctttac taagacgttg atttgttccc tgttctanat tcctctgtga 420  
atgtgatg 428

<210> 7297  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-088-Q1-E1-E1

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gggcaacact tgatcttcta gttgcatata agaatcagct agctgaagca gctaaggaga 180  
canaagtann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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aactgcagaa gttagctgca caggcaaang ccttccactn nnnnnnnnnn nnnnnnnnnn 360  
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cctttgtaat cnttgtccat gcaatc 446

<210> 7298  
<211> 478  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-088-Q1-E1-A8

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acatatgggt tgggtggttct ggaatggaca tgagaagcaa agccaggact ctacctggac 240  
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gttgaggaaa caacattcnt gtcattgncg atggcggtaca ctccccgcgg ggtgnaccaa 420  
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<210> 7299  
<211> 462  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-E8

<400> 7299  
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at ttgagttt atgtaccgat cgtctcataa catctgagag cttggactca gagaaagatt 180  
cagattcttc aggagaaagt tcttaccggc ctcaaggcac agacttggtt tcttcatctg 240  
tgaatgaaac tgaggttcct agagagtact acgcgggttg ggatgaggaa gaacctcttc 300  
tccaatctgt tgagtgtcgt atttgccaag aggaagatag tactaagaac cttgaagctc 360  
cttgtgcttg taatggtaag tttaaagtat gctcaccgca agtgtgttca gcgttggtgt 420  
aatgagaaag gngacataac cctgtgaaat aagtcaccaa cc 462

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<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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ccattcgatt acttatacag cagatcgcca cacgggtttg atagtaaaga catgacagtc 180

tacaaagacn atgataacgt accctacttg anatattcat cataggacaa cagcgtgctg 240  
catatcggtc ccctgaccga gaattacctc gatgtgaagc cgggtaatga agagaatcat 300  
gggtgggacaa cacaganaag ctccggctat cttcaaacat canaactt actacatgat 360  
cacgtctggt tgcaccggga tgggcacnaa acnaagcatt agctcatg 408

<210> 7301  
<211> 427  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 7301

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ctgtttcatg gtgcgatgaa ggagatgggc aaattgggag gagaaacaag gcagtgagaa 180  
agctgtggga gttggatctt gtgtacctca catggaccga ggtttcagta caccgggacg 240  
caccaatgga ttggaacgcc acatatgtct cagaccagaa cataactaatg ggaattgaga 300  
tgttcaagat ctttgggcag gtattaagtt tcttactgt ctgcgatgta ttaactgaag 360  
aagcctcttg gagacatgtt tcgaggaacc aaagggagtc aaaaacttaa tctatcttgt 420  
acgaaca 427

<210> 7302  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-F5  
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acaaacatag acctcgttgc agaacgcgag aagggtggtg ctttaacaag gcagattgag 120  
tcacttggtg ctgtcaaaga gaagaattta gtgatggaaa aagaaactca ggagtataag 180  
gagatgctgg aggaatcaga aaagtgtcgg gtgcttttag aggagcagat ttcgcagctt 240

gaaagtgatt ccaacgagaa tattagagag ctctgtagca aggtggacat tgcataatgcc 300  
aagttggcag aagaggttga gaagactgcc tcattgggta gaaaaagtga gtctattgat 360  
ctaaacgaag agcataggca acgggagctt gatcattaca aggaaatgct tgaggagtct 420  
acaaaaactc aacttctctt gcaagagaaa gttgtagatg tggaaaacga ctcaagagg 480  
aaacttgctg 490

<210> 7303  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-F7

<400> 7303

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taaagaggac catgttactg aggcacttga taaactcagg gaacaaacta gagaaactgt 180  
gaagggactt gagtccttgt catcgaagca gcaacctaca ggttctgatg atgctatgg 240  
tgaagattgg atcaagcaat tcgagaatct tactgggtct aacgacttgg agtcgatagt 300  
ggacacgatg atgcaacagc tggtatcgaa ggatattctt cacgaaccaa tgaaagagat 360  
tggtgcaaga taccctaaat ggctagaaga gcatgaatcc agtctaaaca aggaagaatt 420  
cgatcggtat tcacgccagt atgaacttat caaagaactc aacttggtgt acganaacga 480  
accaaacaat t 491

<210> 7304  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-F8

<400> 7304

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ccgctccggg aaaggatacg gcggtggagg tggcggtgga ggatgtacta tggattgtaa 180  
gaagaagtgt atcgcttatt gttaagatat aataaagatc acatcatctt tataatatat 240  
agtcattatg atggttatgt attttctatg ttatagccta tagattatga gatcatgagg 300  
atccttttgt cttgattcga tttgtagcag ttttatatgc ataatatatg gttgtgatgn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnngg 425

<210> 7305  
<211> 452  
<212> DNA  
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<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-G1  
<400> 7305

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angaaacttc aaggcaatng acatatacat gtacaaagga gagatgggat tttgtagtgc 120  
cgaatgcaga tcagtgcana taatgaatga cgaacgacaa gngcaatgtn aaacgcangt 180  
ttcaagaaac gccgacgttt tgagctctcc ttacgccgcc ggacagagat tatctgccgg 240  
agtattcgta ttttaggatg atcacaaattc acaataatac gaagagnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nangtganat ttttggttag gttaaaaagc acattgtana 420  
naaagttttg ctttttggtg anttttaata cc 452

<210> 7306  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-G10  
<400> 7306

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cgtcgactct cgttcttaaa gatgaaagct ttctacgtat tcgttggtgc tcttctctct 120

accttgaatt ataggggaga agcaagtggg tctgttttct tcattgatgg atccaacaat 180  
 caatatcttc gtccacgata atccagttag gcacttccca tgtcgcctgt tgaaatatct 240  
 gcagcagtgt ctgccttggt gggttttgca ccttcagcaa ctttgacagc tgatgggtca 300  
 tccangttga acaagattct aannccant ccatttggag aggcctnccg gctgcttttg 360  
 tgctagaant cgntggagct gatgatatgc cttttgaaa acctccctag tcattcntt 419

<210> 7307  
 <211> 403  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-G12

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 ctcatcgtag agagagaaan acaccaacca ttgttacact ctaagagaag agaagagaga 180  
 agggaaaatg gacggtgtat caccaaagtt tgtgttgccg gagacattcg acggcgtgag 240  
 gatggagatc acaggccaac taggcatgat ctgggagctt gtaaaagcac cagtgattgt 300  
 cctctctctt caattagctg tttacatctg tttgcttatg tctgtcatgc ttttatgtga 360  
 gagggtttac atgggaatcg tcatcgtcct cgtcaaactc ttc 403

<210> 7308  
 <211> 511  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-G2

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 tatcattttg gtgattaagt tatttaagaa atggctgata atttgagttt atgtaccgat 180  
 cgtctcataa catctgagag cttggactca gagaaagatt cagattcttc aggagaaagt 240

tottaccggc ctcaaggcac agacttgggt tcttcatctg tgaatgaaac tgaggttccct 300  
agagagtact acgcggttgc ggatgaggaa gaacctcttc tccaatctgt tgagtgtcgt 360  
atttgccaag aggaaagata gtactaagaa ccttgaagct ccttgtgctt gtaatgggta 420  
gtttaaaagt atgctcaccg caagtgtgtt caagcgttgg tgtaatgaga aaggcgacat 480  
aaccctgtga aatatgtcac cagccttate a 511

<210> 7309  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-G6

<400> 7309

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ccattttttt tgtttgttga aaatttgaat ccacaaattt tgaattcatt tgtaaccggt 180  
cgttgaagaa gaagaagatg cctgctctag cttttgttga tactcccatc gatacctttt 240  
ccagtatctt tacaccgtcg tctgtttcca cgcgcgttgt tgacggttcc tgccattgggt 300  
ctccgtccct ctctcctct ctttaccgta tcgacggatg gggaagctcc gtatttcgca 360  
gcgaattcct ccgggaacat ctctgttcgt cctcatgggt caaacacttt acctcaccaa 420  
gacatcgatn tgatgaaagt tgtgaagaaa gttacagatt cga 463

<210> 7310  
<211> 465  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-G8

<400> 7310

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cgcaattaa gacgctggaa tctcnactaa gcactctcgg atcgaatcgg attctgggaa 180

ttgggtaata caagatcntg gatcttccaa cgggtacttta ttgaattcga atgctcttga 240  
 tccagagacg tcggtaaadc tcggagatgg gcgatgttat caaactangt gagtatacat 300  
 ctatttttggg gaattttgtg attgatgatt ttcangagan naagcttacg angaacaatt 360  
 nggcgtcagg ctaatgccaa ggaanccaag ttaggggtttt aagaaagtat ccatttggggg 420  
 ggatatcact gaaggaaaga aaaggggggtt gggatnttga aattt 465

<210> 7311  
 <211> 388  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-086-Q1-E1-G9

<400> 7311

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 cttcaccttt gaaggtgtgc ggagggttgc ggaggaggat ctgaaattgg agaaacatgc 180  
 tttggatgtg cataagagct ttgttaagca acatttgggt cagtgccttag caggtgctga 240  
 gaatgatgaa acttcagaaa attctctaga aactgagaag aaagatgatg taactccagt 300  
 gaaagaagca gcaagagtta tctaaagagc acacgacgaa aaaagatggt aaggaagata 360  
 tgactgggtg atgatgagaa aacaaaag 388

<210> 7312  
 <211> 402  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-H11

<400> 7312

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 ttaccctgtt gagttagcaa ggacacggat gcaggcattt aagggaacgc aaagaaatgt 180  
 gaaactgcct ggcgttttga agacattagt tgacgtcgtc aatccagtga agggctcaaa 240

taatggatat aggatgttat ggactggtct tggtgctcaa cttgctaggg atgttccatt 300  
 ctctgcaatc tgctggatga tacttgagcc tacccggaga agcattcagt cggccatggg 360  
 tgaagaacca agggcangca ntntaataag tgcaaacttc gc 402

<210> 7313  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-E7  
 <400> 7313

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 acttctctca tttatgatgg ataccagtcc gacaactgga agtgtaaca ctactgtaat 180  
 tgagaaacaa cggttggcta agtcatctct cgctttcaat tgtaaaaccc cagcatttcg 240  
 aaagctatct ccagagtatg tanagaagta caaccagcag caactanctg agcaagctac 300  
 cacacaactg acaacaccag agtctcctca aaagagcgat accaaagtcg agtcagagaa 360  
 aaccatcgat ccaacaaagg gagattcaga aggtggcctt aaagaganga aaaagaacaa 420  
 ttaaacaagg attgccaacy tggataatac tgttgctaata gtccgggttc ggtgtg 476

<210> 7314  
 <211> 508  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-C5  
 <400> 7314

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 tgttgatggc ctttggtaca ccgatgggtg tcgcagatga tgtgacacca atcccagatg 240  
 gtaaaactaa gggagcacia gctttatcca tgagaatctc cggaaatttt gctgctttct 300



acaactgcaa attctacggt ttccaagaca caatctgtga cgatacagga aaccatttct 360  
tcaaggattg ttacgttgaa ggaacattcg atttcatctt cggaagtgga acctctatgt 420  
acttgggaac acaattgcac gtggttggag acggtattag agtgatagca ncgcatgcan 480  
gaaagagcgc agaagagaag agtggata 508

<210> 7315  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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<400> 7315

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cagctcacia atctgaacia tgtagacatc tctctaagaa atatctccag tgtcgaatgg 180  
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ctttgagcct cattttgtaa aattttggat taacattggg atagcatttg agattttagg 360  
tcctaaaacc caactactat gaaagtatat gcttcagatt caccaatitt tatacgtatg 420  
tattcctgtg tgaaataaag cattatacaa aananaaaaa aaaaagggcg gccgct 476

<210> 7316  
<211> 493  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-C8  
<400> 7316

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taccgattgg aaagggttag attgcggcga agagacgaga atcgtaagga gattgatgaa 180  
gttcgaagac ttgcctgagt atttgaagga caacgagttt atacacaacc attatcgatg 240

tcaatgggtct ctcaaagata cttttctcag tgctttctct tggcacaacg agactctcaa 300  
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ggagacgacg gagattagtc tcgccggcgt ttttaacggc atggccggag tgaggatttg 420  
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cctaactcac aaa 493

<210> 7317  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-D1  
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aaagattgtc ttttgatgtc taagaggatg aagggtgatt ggaactcaag cggaagttt 420  
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tgacttgtgc cacataatac gtcntg 506

<210> 7318  
<211> 397  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-D12  
<400> 7318

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gattctccgg catctgagcc gatgccggcg ccacggcgac gggcgaggagg ttgaaaagg 180  
aaagcgaatg ctcttggggg ttctaatttc ttctcttctg cgccgtcgaa gaggatgttg 240  
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gctcgtcagg cgccgagtat tatgccctcg gggcggatg gggttaagtc ggaggttttg 360  
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<210> 7319  
<211> 510  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-D2

<400> 7319

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tcgagactca ccattgaaat cgaagaaaca gcaccaattt ccacttcacc accgaaagag 180  
agagacagag aggataataa aaggccgcca tggatttaga tcaatggatt tccaaggtta 240  
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accattcttt tgcttcttaa aagcaagaca 510

<210> 7320  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-D5

<400> 7320

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tcagcttttg aatcagggtt ttaagggttac gatcattgat aatcttgata actctgtcgt 180  
tgaagctgtt cataggggta gggaacttgt tggctctgat ctctctacca agcttgaatt 240  
caatctgggt gatctaagaa acaaaggaga tattgagaaa ctcttttcca atcagagatt 300  
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tcgttacttt gataataact tagttggaac tatcaatcta tatgagacca tggcaaaata 420  
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cccatgtgtg gaagactttg agt 503

<210> 7321  
<211> 508  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-D6  
<400> 7321

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gacggtttat gtccctctag ttgctggggc aatagcacgc tccttggtt gtatctcttg 180  
ttaccctgtt gagttagcaa ggacacggat gcaggcattt aagggaacgc aaagaaatgt 240  
gaaactgcct ggcgtttgga agacattagt tgacgtcgtc aatccagtga agggctcaaa 300  
taatggatat aggatgttat ggactgggtct tgggtgctcaa cttgctaggg atgttccatt 360  
ctctgcaatc tgctgggtcga tacttgagcc taccgggaga agcattcagt cggccatggg 420  
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tgcaattgct gcagcagcta cttgccct 508

<210> 7322  
<211> 505  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-D8  
<400> 7322

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 tttgattttg atgagtgata ctgggtggtg tcacagagct tctgcggaag ccattagagc 180  
 tgcttttaat caggagtttg gagatgagta ccagggtgtt attacggatt tgtggacaga 240  
 tcatacgccc tggccgttca accagcttcc caggagctat aattttctgg tgaacatgg 300  
 aactctgtgg aaaatgactt attatggtac atctccacgc attgttcac aatctaattt 360  
 tgctgcaact tccactttta ttgccaggga aatcgcccaa gggttaatga aatatcaacc 420  
 aagatatcat aatcagtgtt catccgttga tgcaacatgt cccacttcgt gtcctaagat 480  
 caaaaggctt gcttaagaaa atcgt 505

<210> 7323  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-D9  
 <400> 7323

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 aaaatgctgg ctaggctcgc tgcgaagcgt cttctcgaga tccgtcaagt tttccgtcaa 120  
 cnaacctctc aggtgactcg tagcttatcg acggccttaa actancatct ggattctcct 180  
 gataacaaac ccgatcttcc atggggagttt tcagaggcta accaatctaa ggttaaggag 240  
 attctctctt actatccatc caattacaag cantccgcag ttattcctct cctagatctt 300  
 gcacaacagc anaatggang ctggctcnct gtttcagcaa tgaatgcggg tgctaaagtt 360  
 atagnagttg cccctatccg tgtttatgaa ggttgcaaca ttttactcaa tg 412

<210> 7324  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-E3  
 <400> 7324

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ccattangca cattgacaca gtgagggcat acacatttgg ctctcattat tttgtggagg 120  
ttgatattgt tctccagct gacatgcctc tgcaggtggc tcacgacatt ggagaatcgc 180  
tgcaagagaa gctcgagcta ctanaggaga tcgaacgggc ttttgtgcat cttgattatg 240  
agtacactca caaacctgag cacgctagat cccactgtta nctgtttatc ctttttaaag 300  
atctctacgt ntcnananct ttacanatta ntcttcactg tattgttggt tagtagacaa 360  
ttgtgagata aaggaatacc tttgtaacta aganaancnc ncanaaaagg 410

<210> 7325  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-E4  
<400> 7325

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gttacacaac catttctaga tatcattttg gtgattaagt tanttaagaa atggctgatn 120  
atttgagttt acgtaccgat cgtctcataa catctgagag cttggactca gagaaagatt 180  
cagattcttc angagaaagt tcttaccggc ctcaangcac agacttggct tcttcatctg 240  
tgaatganac tgaggttccn atagagtact acgcggttgc ggatgaggaa gaacctcttc 300  
tccaatctgt tgagtgtcnt atttgccata naggaagata gtactaagaa ccttgaagct 360  
ccttgtgcnt gtaatggtag tttaaagtat gctcaccgca agtgtgttca gcgttgggtg 420  
taatgaagaa nngcgacata acctgtgaaa tatgtcacca gccntat 467

<210> 7326  
<211> 460  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-E5  
<400> 7326

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gacgatagat cggagggttat caacgctgaa tccaaacgcg ccggtgtttg atccggtgga 120  
 atttcgtgag gtggaggatt tttcaccgaa atggtgggat ctagtaacga cttcgaaatg 180  
 gttccgtgac ttttggttca ntgctaactc tgagaatgag ttctctcggcg gcgacgattt 240  
 ctcagttatg gaagaagagt tgcaggagat gatcgcatcg tctgatgggtg gatccatggc 300  
 tgatacagtt acagaagcag atgtggctag ttatttgaag atgcttttga acatagcgga 360  
 gtctacgaaa gagaagattt atagatcgaa ggtttcgtcc tgttcancaa aagtataatc 420  
 aagaagaagt acatgaatcc gaactttaat tgtcnccgga 460

<210> 7327  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-C3  
 <400> 7327

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 agtttaaatgt gcttattctt ggtatcgaca aagctgggaa gacgacattt ttgganaaac 120  
 tgaagacgat atactcaatc tcggaaggtc ttctctcatga tcgaattggt cctactgtgg 180  
 ggcttaatat tggtcgcatt gaantctcca atgctaaaat tgtgttcttg gatctgggag 240  
 gtcagcctgg tttgcggtct atttgggaga aatactatga agaagcacac ncgttgatat 300  
 atttgattga tgcagcttgc ccaaccgcgt ttgaagattc taaatctgct ttagaaaaag 360  
 ccctgcngca tnaggatttg caangagccc ctcttttaat attggcaaac aagcaagacc 420  
 tcacaaatgc tgtatcggct gaagaactgg accgatanct tgatttaaag aaattggatg 480  
 aaanagtgta catgtttga 499

<210> 7328  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-A2  
 <400> 7328

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ccaganaagg gcattttccc ttnggttnac ttgcacgagt gtgctgcgga gangaaagat 120  
natctagggtt gtcttaagtc ttcagctcac aaatctgaac aatgtanaca tctctctaag 180  
aaatatctcc agtgtcgaat ggctaagaac ttgatggcaa agcacgatat ggctgaactt 240  
ggattcagtg gtgttaanga acttgattcc actgaagata agaatacagn gagtatcgaa 300  
cattgaaagg ttgaccaaaa aactttgagc ctcattttgt aaaattttgg attaacattg 360  
ggatagcatt tgagatttta ggtcctaaaa cccaactact atgaaagtat atgcttcaag 420  
attcaccaat ttttatacgt atgtnttcct gtgtgaaata aagcattatn caaannangn 480  
naaaaaaagg gcggccgctc taa 503

<210> 7329  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-A4  
<400> 7329

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ttttgtaaca tttcttgctc tttcttcttc atctctagcc gatgagacag agactgaatt 120  
tcattacaaa cccggtgaga tagccgatcc ctcgaaatgg agcagtatca aggctgaatg 180  
gaaaatttgc gggacagggg agaggcaatc gccaatcaat cttactccan aaatagctcg 240  
cattgttcac aattctacag agattcttca gacatattac aaacctgtag aggctattct 300  
taagaaccgt ggattcgaca tgaagggttaa gtgggaagac gatgcangga agatcgtgat 360  
caatgatacc gactataaat tggttcaaag ccactgggca cgcaccttca gagcattttc 420  
tcgatggaca agaggttggc aatggaactt cacatggtac acaaaagtgt tgaanggcac 480  
tt 482

<210> 7330  
<211> 512  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations



<223> Clone ID: LIB24-086-Q1-E1-A5

<400> 7330

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ggtttagcaa gactgagttt aatgtgctta ttcttggtat cgacaaagct gggaagacga 120  
catttttggga gaaactgaag acgatatact caatctcgga aggtcttctt catgatcgaa 180  
ttgttcctac tgtggggctt aatattgggtc gcattgaagt ctccaatgct aaaattgtgt 240  
tctgggatct gggaggtcag cctggtttgc ggtctatttg ggagaaatac tatgaagaag 300  
cacacgcgtt gatataatttg attgatgcag cttgcccaac ccgctttgaa gattctaaat 360  
ctgctttaga aaaagccctg cggcatgagg atttgcaagg agccctctt ttaatatattgg 420  
caaacaagca agacctcaca aatgctgtat cggctgaaga actgggaccg ataccttgat 480  
ttaaagaaat tggatgaaag agtggtcatg tt 512

<210> 7331

<211> 470

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-086-Q1-E1-A6

<400> 7331

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aaagatgaaa gctttctacg tattcgttgt tgctcttctt ctaccttga attatagggg 120  
agaagcaagt ggttctgttt tcttcattga tggatccaac aatcaatatc ttcgtccacg 180  
atcatccagt gaggcattc ccatgtcgcc tgttgaaata tctgcagcag tgtctgcctt 240  
gttgggtttt gcaccttcag caactttgac agctgatggc tcatccaagt tgaacaagat 300  
tctaaaacct aatccatttg agaggcctcg cgctgctttt gtgctanaaa tcgctgggag 360  
ctgatgatat gcttttggga aacctcccc taagtcattc cttcctgggc aatgccataa 420  
aggagcaant attaaagttc ngattcgtac aaaagctgat aactgaaact 470

<210> 7332

<211> 446

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-A8

<400> 7332

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngga ttgtgttttag 120  
gagttaaaaa cttgcttttg tccatcatga gattgcttct tagtctcttg tttctcttgg 180  
ctttaaccac ctacncaagt gcancttatt gtctatgtag agatgggtgtt ggagagaaag 240  
atcttcaaac atcgatagat tatgcatgtg gagttttaaa agattgtaat cctattcatg 300  
agaaagggtcc ttgttatcaa ccaaacacca tcaagagtca ttgtgattgg gcggttaata 360  
nttatttcca aagatttgggt caaatctctg gaagctgtaa tttcncagga actgctacta 420  
ccagccaaaa tcttccttca actgtg 446

<210> 7333  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-B1

<400> 7333

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ggctgtgaag cctgatgctt tgaaggagcc tccatctatt gatgtgcctg cattgtcatt 120  
ggatgagttg aaagaaaaga ccgataactc tggatcaaag tcattgattg gtgaaggatc 180  
ttacggcaga gcctattatg caaccttgaa agatggaaaag gctgtcgcgg tgaagaagct 240  
tgacaatgca gcggaacctg aatcaaatgt tgagttcttg actcaggtct ctanggtttc 300  
caagctgaag cagcataatt ttgttgagct cttcgggttat tgtgttgaag ggaatttccg 360  
cattcttgcg tatgagtttg ctactaaggg atctttacat gacatcctac acgggangaa 420  
aaggatccaa ggagcaaac caagtcctac ccttgactgg gatcaaccgg tc 472

<210> 7334  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-B4

<400> 7334

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gaggcttggt tgttttctct cctctaagaa acaatcagtc tcataaagtg gcaaagatgg 120  
ttgcagaacg atacacagtc gatttgntta agccacttgt gtttcagggt ggtcatcttg 180  
gcgaagaata tcaggaatgg attcatcaac ctattgtatg cgttgagggt cctcgttttt 240  
tcgaaagtga tttttgggag tttttgactc gcacggtttg gtgggcaatc ccaacaatct 300  
ggcttccagt tgtttgctac gttctttcaa tateggcgaa gtaagggaact tacgtttccc 360  
cagatcggtt taatagttgc ttttggtgta ctcacgtngg aactgctcg agtacacgct 420  
tcategcttc cttttccaca tccaaaccaa gagttactgg gcaaacactg cncactaatc 480  
ctt 483

<210> 7335  
<211> 458  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-B6

<400> 7335

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gtctccatct ttgacggttt atgtccctct agttgctggg gcaatagcac gtccttggc 120  
ttgtatctct tgttaccctg ttgagttagc aaggacacgg atgcaggcat ttaagggaa 180  
gcaaagaaat gtgaaactgc ctggcgtttg gaagacatta gttgacgtcg tcaatccagt 240  
gaagggctca aataatggat ataggatgtt atggactggc cttggtgctc aacttgctag 300  
ggatgttcca ttctctgcaa tctgctgggc gatacttgag cctacccgga gaagcattca 360  
gtcggccatg ggtgaagaac caagggcagg cantataata ngtgcaaact tcgctgctgg 420  
ttttgttgcg ggttcattgc tgcancagct acttgccc 458

<210> 7336  
<211> 460

<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-086-Q1-E1-B7

<400> 7336

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gaagctgtga aagccataag ccgagccatt cgcctgtcac gtgttggact caagaatcct 180  
aacggtccaa tcgctagttt catattctcg ggtccaaccg gtgttgggaa atctgagctt 240  
gccaaagctt tagcagctta ctacttcggt tccgaagaag ccatgattcg tctagatatg 300  
agtgagttca tggagaggca cactgtctcc aaactcatcg gttcacctcc tggatatgtc 360  
ggatacaccg aaggaggtca gttaacagaa gcggttagac gtcgccctta caccgtcggt 420  
ctaattccgat gagattgaaa aagccatcca agatgttttc 460

<210> 7337  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-B9

<400> 7337

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gtgcagccca catttgtctt ggactaccca atcgagatat ctcttttggc caagccacat 180  
cgcggcaatg ccggtttgac tgaaagattt gagctgttca tctgtggtcg tgaaatggca 240  
aacgcattct ctgaattgac tgatcccgtg gaccaagagg acacggttgg aagagcaagt 300  
aaggcagcat aacgcaaaga gagcacaggc tgttcgggaa tctcctgaac caaacgcaaa 360  
gaaagatgat gatgatgatg agtcatacga agttgacct tgacgaagac tttctcactg 420  
ccttggaat acngaagtc tccgggcttc gggaatgggg gcttggaa 469

<210> 7338  
<211> 404  
<212> DNA

<213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-086-Q1-E1-C10  
 <400> 7338  
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 ctccggcgat ggtgacgggt accgattgga aagggttaga ttgcggcgaa gagacgagaa 120  
 tcgtaaggag attgatgaag ttcgaagact tgcctgagta tttgaaggac aacgagttta 180  
 tacacaacca ttatcgatgt caatgggtctc tcaaagatac ttttctcagt gctttctctt 240  
 ggcacaacga gactctcaac atttggacgc atttaattgg atttgggtata tttctgtgga 300  
 tgacgggtggg gagttgcttg gagacgacgg agattagtct cgccggcggt tttaacggca 360  
 tggccggagt gaggatttgc ctctcaagca atcaagactc tgct 404

<210> 7339  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-086-Q1-E1-C11  
 <400> 7339  
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 tgttgaccct gaagctaagc tcttgttcat catccgtatc cgtggatatca atgccattga 120  
 ccctaagact aagaagattc tccagctctt gcgtttgaga cagattttca atgggtgtttt 180  
 ccttaaagtc aacaaggcta cgatgaacat gcttcgccgt gttgagccct atgtcactta 240  
 cggattccct aacttgaaga gtgtcaagga attgatctac aagagagggt acggaaaagct 300  
 taaccaccag aggatagctt tgactgacaa ctctattgta gagcaggctc ttggaaaagca 360  
 tgggtatcatt tgcactgagg atttgattca cgaagattct aacagtagga cc 412

<210> 7340  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-086-Q1-E1-C2  
 <400> 7340

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gataatcggt tgtctgtgca gagagagaga gagagaaaat gaggttggtc gatccatggc 120  
cagtgttctt caagagagaa tggaaacggt gctggccatt cctcaccggt ttcgccgtca 180  
ccggcggttct catcaccaag ctaaccgccg gactcactga ggaagatgct aagaactcca 240  
agttcgtcca gcaacacaga aggtgattca ctgaagcaaa atgtagaagc tgacaaggca 300  
tatagatttg ggactatagt gaatgcttca gctttgaaac atgttcaata acaaagaaga 360  
tcattctata tactctttta ttttctctga gtttcgaaat cagcttttcc ttttctgaaa 420  
cttagcaatg gaatggtttt tgttcacagt atcttattcc catttggttg gaaatggatt 480  
ttatggcctt tttga 495

<210> 7341  
<211> 412  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-086-Q1-E1-A12  
<400> 7341

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agtgtgatgc ggagaataaa gaatatctag gttgtcttaa gtcttcagct cacaaatctg 120  
aacaatgtag acatctctct aagaaatatt tccagtgtcg aatggctaag aacttgatgg 180  
caaagcagga tatggctgaa cttggattca gtggtgttaa agaacttgat tncactgaag 240  
ataagaatac agagagtatc gaacattgaa aggttgacca aaaaactttg agcctcattt 300  
tgtaaaattht tggattaaca ttgggatagc atttgagatt ttangtccta aaaccaact 360  
actatgaaag tatatgcttc angattcacc antttttaaa cntaagtaat cc 412

<210> 7342  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-085-Q1-E1-A12  
<400> 7342

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gatgttaggg acccgagaac cgggaagagt gtggaacacg acggtgtttc cggtggagag 120  
atcgttttta aaggcggttc ggttatgctt ggttactaca aagaccctga aggaaccgca 180  
gcgtgtatga gagaggacgg atggttctac agcggagacg taggagttat acatgaagac 240  
ggttacttgg aagttaaaga ccggtcaaag gatgtgatca tatgcggagg agagaacata 300  
agtagtgccg aggttgagac ggttctgtat acaaatccag tagttaaaga agccgcggtg 360  
gtggctaaac cggataagat gtggggagag acaccgtgtg cttttgtgag cttgaagtat 420  
gatagtaatg gtaatgggtt ggtgactgag anggaaataa aggaattttg taaagacgaa 480  
gn 482

<210> 7343  
<211> 496  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-085-Q1-E1-A2  
<400> 7343

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acagaaaaaa aaaaatgtgt tcctcaaaat taaaaaatct gaccaagaa aacatttctc 120  
agatcaacgg ccgtccggtt cttcaaccga agtcgaacca agttccgaca ttagaccgac 180  
gtaactcact aaaaaaatcg cctcctaagc ctttgaatcc aattgcatca aagataccct 240  
caccaagacc aatttctcta atctctcctc ctttgtctcc caacacaaaa tccttaagaa 300  
aaccggccgg ttcttgcaag gaacttctta ggtctagctc tacaaaatcg aaaccagtga 360  
tatcaccaag agaacagtga tgggtggtac aaagagggtta tgcctatggt gattgttcaa 420  
aagcagcctg gaagtatagc agctgccaga agagaagang ttgcaatgaa acaaagaaga 480  
gagaaagaag aaaatt 496

<210> 7344  
<211> 501  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-085-Q1-E1-A4

<400> 7344

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gcgattggtg caacagtggc tccgtttgtc cgtgtcctag tctttatctg cttacctgtt 120  
gcatggccaa taagcaagtt gctggacttt ctattgggtc atcgtcgtgc agcgcttttt 180  
cgaagagctg agctgaaaac acttgtggat tttcatggaa atgaggctgg aaaggggtggg 240  
gagttgactc atgacgaaac gacaatcatt gcaggagctc ttgaactctc tgagaaaatg 300  
gtcaaagatg caatgacacc aatatcggat atctttgtga ttgatataca tgccaaacta 360  
gacagagact tgatgaactt gattcttgag aaagggcata gcagagttcc aagtatacta 420  
tgagcagcca actaacataa tcggccttgt tctggtgaag aacttattaa ctatcaaccc 480  
agatgaagaa atacctgtca a 501

<210> 7345  
<211> 487  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-085-Q1-E1-A6

<400> 7345

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tgtctagggg catgcctact gaggcagctt tgaaggtttt gggtgagaaa atgggatttc 120  
ccgaaggatt gaatgaagct tcatccgatg gcaatgtctt acgttggtgt cggctatgga 180  
gtgaactaga acaacggatt gccacccttg agtttgaccg tgaccggaaa tcaatgggag 240  
ttatggtgga ttccagctca ggaaagaaac tgctactggt caaggggtgcc gtagaaaatg 300  
tattggaaag gagtacccat attcagctac ttgatggttc cactcgagag cttgaccaat 360  
actcaaggga tcttatttta caaagcctac atgatatgtc cttgagtgc ttaagatgtc 420  
tcggatttgc atactcagat gttccatcag attttgccac ttatgatggc agtgaagacc 480  
atccctg 487

<210> 7346



<211> 451  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-085-Q1-E1-A7  
  
 <400> 7346

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cgnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn   60
nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn ngtgtccatt ttattaggca tgttggtgat 120
ctttgtttca ccaatggtgt tcgcagatga tttgacacca atcccagagg gcaaacccca 180
agtgggtgcag tgggtcaata cccacgttgg tccattggct caacgtaaag gcttagatcc 240
tgctctcgta gctgctgagg ctgctccacg tatcatcaac gtgaatccaa agggaggtga 300
attcanaaca ctaacagacg caataaagag cgttcccgca gggaacacaa agcgggtgat 360
cataaagatg gctcatggtg agtacannga gaaggctact atcgacagga acaaanccct 420
cattacattg atgggacaan ccaatgccat g                                     451
  
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<210> 7347  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-085-Q1-E1-B10  
  
 <400> 7347

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ttttatcaag cgggtgcgggt tcgactaaac cggaagggt tggccggttt gttacaatgg 120
cgacggcggc gagtctcttt gaaatctgcg ttaaagcttc tatcaccact cccaacaagc 180
tcggagactg ccctttttgc caaaagggtg tactgacaat ggaggagaag aatgttcctt 240
atgacatgaa aatggtggat ttgagtaaca aaccagaatg gttcttgaag attagtccag 300
aaggtaaagt ccagttgtg aagtttgatg agaaatgggt tccggattca gatgttataa 360
cacaggcttt agaagagaag tctctgagc ctctcttgc taccacact gaaaaggctt 420
cagttggatc gaagatcttt tccacatttg tcggttttct gaagagcaaa gattcaggag 480
atgga                                             485
  
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<210> 7348  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-085-Q1-E1-B3  
  
 <400> 7348

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tgtcncctacg ccccgacatt cccgaagtcg ccccacgcgt ccgcaaaaac aaacactatg   60
ggacacctca aaagtctctt cacaattctt ttcctaatag ctatgtcttc aaccgtaaca  120
tttgccggta aaataccgcg gatcatcgtg tttggcgact cttccgttga tgccgggaac  180
aacaactata tcccaactgt tgctagaagc aactttgagc catatggacg ggactttggt  240
ggtggaaagc cgaccggacg gttttgtaac ggaaagattg cgacggattt tatgtccgaa  300
gccttagggc ttaaaccaat cattccggcg tacttggaac cttcttataa catttcggat  360
tttgcaacag gtgttacctt tgcttctgct gccactggct atgacaacgc cacttctgat  420
gttctgtcgg tactacctct atggaaacaa ctggaatact acaaagaata ccaaacaaaa  480
cttaaagcat accaa                                                    495
  
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<210> 7349  
 <211> 493  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-085-Q1-E1-B4  
  
 <400> 7349

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gcaaaaacttc agcgtgcagt gaaaagtatt aaaagaaagc agcgttcgtc gtctgagaac  120
accacttcaa ctttttcacc tcttaatcat ttaaattgat cgcagaaatt cgcagagaaa  180
ttgttttccc gtcttcagac catcaagggc agtgggtgaac gtgttgagac taggttgatg  240
atgattaaag ttattgctcg cacaattggt cttcacaagt tgcatttact aagtttctat  300
cctttttcttc aaaactatgc tctgccgcat gtaaaggaca ttacacaaat acttgacgca  360
gcagttcaat cttgccacga tggggttcct tctgatgttg tggagccact gttcaagcaa  420
  
```

attgtgaatc agtttgtaca cgacaagtca cgtcctgaag gctattgctg tcggactcaa 480  
tgtggtgcga aga 493

<210> 7350  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-085-Q1-E1-B5  
  
<400> 7350

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cgccaccttt aacctccgac gtttcaatgc cttccggtga agaagatgag ccaaagcatg 120  
taacatcgga agaagaggca ccggtgactt cggagacaaa tctgaagcta cctttgatgc 180  
cggagctaga ggagtcaaat catacggcgg aggttgtttc agagaagggtg acgccggaga 240  
cgatgacttt ggagtcagaa ggtctcaacc acgcggcgga ggattcagag cagacacatg 300  
aagtgcgccc ggagacagag actgcgaagc taagagggttc tcaaccacac ggccggaggat 360  
tcaagagcag acacatgaag tgacgcggga gaaagagact gtgaaatcag agttttctcaa 420  
ccacgtggcg gaggattcag agcagacaca tgaagtgcgc ccggagacag ag 472

<210> 7351  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-085-Q1-E1-B6  
  
<400> 7351

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atcattcgag ctggatctgc agcagcattg tcgtcacttg ttaaccgact tgaccagtt 120  
cttaggaaga ctgctaactt gggaagttgg caggttatta gtctgtaga ggtcgtcgga 180  
tatgtcattg ttgtggacga attgctcact gtacagaata aaacctacga tagacctaca 240  
attatagttg caaacagagt gagaggagag gaggaaatcc ctgatggtgc agttgcggta 300  
ctgacacctg acatgccgga tgtactatct catgtttctg ttcgagcaag aaatggaaag 360  
atctgctttg ccacatgttt tgattctggt atcttatctg acctccaagg aaaagatgga 420

aaactgttga gcctacaacc aacctctgca gatgta

456

<210> 7352

<211> 490

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-085-Q1-E1-B7

<400> 7352

gtacanagtc cgaaattccc gggcntnttt tcaanaacaa taaaaaaatg tctcaagatt 60

ctgcaactac tactccgccg ccacctttta cctccgacgt ttcaatgcct tccggtgaag 120

aagatgagcc aaagcatgta acatcggaag aagaggcacc ggtgacttcg gagacaaatc 180

tgaagctacc tttgatgccg gagctagagg agtcaaatac tacggcggag gttgtttcag 240

agaaggtgac gccggagacg atgactttgg agtcagaagg tctcaaccac gcggcggagg 300

attcagagca gacacatgaa gtgacgccgg agacagagac tgccaagcta gaggttctca 360

accacacggc ggaggattca agagcagaca catgaagtga cgccggagaa agagactgtg 420

aaatcagagt ttctcaacca cgtggcggga ggattcagag cagacacatg aagtgcgcc 480

ggagacagag 490

<210> 7353

<211> 456

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-085-Q1-E1-B8

<400> 7353

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gcttanaaan gacgantttc tcaccggagc tgagtttata ggtgtcggtc ttctcaatat 180

acccgaagat atcgctacc ataaggaatc taatctcatc tacactggtt gtgttgatgg 240

atgggtgaaa cgagtcaagg tcnccgactc ggttaatgac tcagtcggtg aggattgggt 300

caatactggt ggtagaccgc tcggaatcgc gttcggaaac cacngccaag tcattgtcgc 360

agacgtacac aagggactgt tgaatataag cggtgacgga angaagacgg aattgttgac 420  
 ggacgaaatc ggacggtgtg aagtttaagc tgacgg 456

<210> 7354  
 <211> 475  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 7354

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 atcatcttca ccactatggg tgcttcatct tctacagacg acaaagaatc atcggagaaa 180  
 cgagaaatcg aaagccttgc tgcttcaacc ggagctcttc ctctgcttaa acgatacttc 240  
 tccaaactcg tegattctca aaccaatact gttccttttc aatccttgaa gcaaagnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
 nnnnnnnnnn nnnnnnnngt ttgccaagtg gttatgtcaa atgttggtga agaata 475

<210> 7355  
 <211> 464  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-085-Q1-E1-A11  
 <400> 7355

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 tccagcccaa ttggaagctg catttgctt ttttgccagt accggtcctg aggactttta 120  
 gctgaatgag tttgaagagg catgtggtgt tgggattgaa gtttcccag aagatattga 180  
 gaaagcagtt aaaggaatct ttgaagagaa taagaaaaca atattggagc agcgctatcg 240  
 aactaatgtg ggtgaattat ttggacatgt ccggaagaat ttgccatggg ccgatactaa 300  
 gattgtaaag aaactcatag atgagaaaat gtatgagctg cttggtgaga aaaccgctgc 360

tgataatgaa aaacctacaa aaaagaagga gaagaaggag aagcctgcca aagtcgagga 420  
aaagaaagct gtggtggaaa ctaccgcaga gccatctgaa gagg 464

<210> 7356  
<211> 348  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-084-Q1-E1-A6  
<400> 7356

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atgtctatga caaagaggag aactacattc cttttgaccg gttagcccct gaagaatctc 120  
agccaataac cttcctcaag aaagcaatgc ctaactacac agcctgattc gccatggtct 180  
caaactagtc ttttgaaatc tcaatatctt tttgcacgtc gccgatgtta tatgtaagct 240  
ttccaagcga tgagcttctc taacacttca ccaacgcttt atactgttat cttctttcca 300  
ntcttatcag aagagagaaa ctgggcaa at taaaaannaa aangaagg 348

<210> 7357  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-084-Q1-E1-B4  
<400> 7357

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actgccacgc cgtcgaaaat ccgcttctct gtcataaacg ccacgtcgga gaatggaaac 120  
agcgggtgga gtaaaaacga tcgtgatgag gatccatctt ttaaccatt tggtttcgtt 180  
acagacaacc cgtctanccg gagtgcatt cagttaccag agtctccggc ggaagacggc 240  
aatgtcggcc aaatgctcta caggactgan gagaanggta aagngtatgg ngcaacnadc 300  
agatctggga agcttagnng gtttgtgaga gagactggat caaaggagag tcgtcgaang 360  
aaccattgta tttggtngtg gatggcctac tcagtccttn accaca 406

<210> 7358  
 <211> 380  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-084-Q1-E1-B7

<400> 7358

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ggggattctc cccgaggaat ggttgaatct gcgtttgagt ttgcaaggaa tatgtcgtga 180
aattagacta tcacaacttt gttttctcaa tgaaagcgag caaccacagt atcatgggtcc 240
aggcgtaccg tttacttgtg gctgagatgt atgttcattg atgggattat cctttgcagt 300
ttgggagtta ctgaggcagg agaaggngan gatggacggg atgaaatctg cgantggaat 360
tggggacgct tcttcagtga 380
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<210> 7359  
 <211> 505  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-084-Q1-E1-C10

<400> 7359

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aaatggcttc tctttggctg aagttaatct ccataagtct aatatacctc aatgttatcg 120
ctaaatcaac tccgcatcaa gaaagcgaat tcgaatgtgt ctctatagac aaacaatctg 180
cactacaaca tcctctaatt aagaatcatt gcatacagac tagaccaagt cgagagcttc 240
tatcaatact ctctacgtcc aatggtaaca tactcagaga gattgatttg aagggatcag 300
aagaatgtcc aaagggacaa gtaccgattc ataaacaaaa aaccaactta accaatagtc 360
ttattcatcc ccaacaaatt catagagcag gccgtatcct gnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnctcatg attcccttct 480
gcattgttgt ctcaaaaaaa taaga 505
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<210> 7360  
 <211> 405  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-084-Q1-E1-C5

<400> 7360

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 attaaggacg caagatcttt aatggagagt gaggagcaaa acgacgttgc ttcagccatt 180  
 catttactag acgcggcttt atcaatatcc ccgcgttcgg aaactgcgtt agaacttaaa 240  
 gccagatctt tgctctttct acgtcgcttc aaagatgtag ttgatatgct tcaagattat 300  
 atcccaagcc tcaagcttgc cgtgaacgag gaagatggat cttattcata cgaaggttct 360  
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<210> 7361  
 <211> 400  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-084-Q1-E1-C8

<400> 7361

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 accagggttcg aggaaacctt tttgtacaga ggtgaaggat ttggtccggg aagctgatac 120  
 tgtcataaag attcggctctt ttcagatcat tgtagctcag ggagtgcacg gatcgtttcc 180  
 ttggtctgct ctttcttttg cacctatgtg gttggaactc attgggttct cacacgggaa 240  
 aactgcattc ttgatgggtc ttttcgtggc tgcattctct cttggtggct tgtttgagg 300  
 caaatggga gattttctgt ctactcgtct tcccaattcc ggaagaatca ttctcgcgca 360  
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<210> 7362  
 <211> 365  
 <212> DNA  
 <213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB24-084-Q1-E1-D6

<400> 7362

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tancactttt gctcgagttt cnatcgggaa cctcanattt ctcttgccac accggnagtt 180  
ctccaggagc tggctttaca aacagaaatt gctcaagagt ctccgggaga aacttgcgaa 240  
ccgccggaga atttatcaat tacggaatca anactcaatg gagtgtctgg tgattcaagt 300  
ggtgagaagg tggnaacaat ttacangan aagaagtttg atgccttga gatatttgtg 360  
atggn 365

<210> 7363  
<211> 377  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-084-Q1-E1-D8

<400> 7363

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tanntgagat tagtacactt ggtaaaggtc tctcttccat aaccaacttt atcttatgat 120  
togaatcatt ttatcttcat caagaatttg acattatagc tggcttaaaa ttggcnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna angaaagatg aacaatttgt 300  
tgtcatgtan ttatcaactc tcccanatgg agccactgtg gggataaagt tttttggcaa 360  
tagtcaagtg gacttca 377

<210> 7364  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-084-Q1-E1-E12

<400> 7364

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 ctcaagcaat ttttcttttg gattagattg gtgttttctt ttggtttgtg tggatgatgat 180  
 gagaaggcaa cgagatgaac aacaatctag ggttttctac gatctancat ctcttggttt 240  
 gaatcttctc cgttctcctc ctatgccgat ttctttacct gatcatttcn ccgatccgcc 300  
 cgctagaatt cgtctccctt tttcntcgca ncgtttttcc gtcttcgncg ccttcttttg 360  
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 ccnga 425

<210> 7365  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-084-Q1-E1-E4  
 <400> 7365

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 tgcgtatttg gacaaatcat ggaagtcttt ctgaccgtat catgagctat tacggggatt 180  
 ctccccgagg aatgggtgaa tctgcgtttg agtttgcaag aatatgtcgg naattagact 240  
 atcacaactt tgttttctca atgaaagcga tgcaaccag tgatcatggt ccangcgtac 300  
 cgtttacttg tggctgagat gtatgttcat ggatgggatt ancctttgca tttgggagtt 360  
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 tcttcaggac gggctcngtg acacaata 448

<210> 7366  
 <211> 401  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-084-Q1-E1-E5  
 <400> 7366

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 tgtgaagaac tagattggat tcctttctat ccagccagaa aggactccca gccagccgaa 180  
 caatcacacg ggcataaaag cagaccacaa gggccaccta attatgatgc tcttccacag 240  
 atattgaatg tttgctctta ttggctacag agctttatta agtacagcaa atggcctgag 300  
 aatccttcta atgtcaaggc agcaagaatt cttatccaaa ggggcacaa angttaatcc 360  
 agtgccagga acaactggga atatcangtt tggctgtaaa c 401

<210> 7367  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-084-Q1-E1-F10  
 <400> 7367

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 accttctagc attggagggc tcatccactt gagatacttg agcttatacg gagctgtggt 180  
 atctcatcta ccttctacta tgcggaactt aaagcttctg ctctttttga acttacgtgt 240  
 tgataacaag gaaccgattc acgtgccaaa tgttttgaaa gagatgctag agttgaggta 300  
 cctttcccta cctcaggaaa tggatgataa aaccaagttg gaattgggtg atctaagtga 360  
 acctggagta cttgtggtat ttctcaacgc aacacagtag tgtgacagac ctctccggt 420  
 atgactaacc tccggaatct cgggtgtatct ttgaacgaaa ngtgcaattt tgaaactcta 480  
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<210> 7368  
 <211> 404  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-084-Q1-E1-G7  
 <400> 7368

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 ctgctcttcc tttcacggcg agtacttagc tccgtcgaga tgctttctcg gagctccggg 120  
 cacttcctct tctttatcac tctccggtaa gaagaactca tattcnccga gacagttcca 180  
 tgtttctgcn aagaaagttt ctggggttaga ggaagccatt agaatcagaa aagtgagaga 240  
 gcttgaaact aaatcaaaag ttaggagaaa tccancatta agacgtggga agagtancgc 300  
 ctcgctntct tgtacctgat cacattccaa gggctcctta tgttgagtcn ggtgtattac 360  
 cggntatata angtgaagtt cnagantccc tggctcctgaa aggc 404

<210> 7369  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-085-Q1-E1-A1  
 <400> 7369

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 tctgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnng tgttgtttga tcaaggcact tatgacaagc ttctcactga agtcccaag 240  
 ttcaagctca tcactccatc aatcctctcc gaccgtatga ggattaatgg gtctcttgcg 300  
 aggagggcga ttagggagct aatggcaaaa ggtttgatca ggatgggtctc tgcacactcg 360  
 agccagcaga tctacactcg tgccaccaac acctaaaaag cgtgaccttt caatgggttg 420  
 gttctcgact cttttcctgg gttttgtcnt ttgatgtata cattaatcat caaaaactcc 480  
 ttat 484

<210> 7370  
 <211> 406  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-084-Q1-E1-A5  
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 aagctggcaa taagaagcaa aagtatgaga aaatcagtga aaagaaagta tcgacatcta 180  
 ttgaggcttt atgccgaggt tatccatctg aatttgcac tttttccat tattgccgtt 240  
 ctctgagatt tgacgacaag ccanactatg cctacctgaa acggcttttc cgcgacctgt 300  
 ttantcgtga aggcctccag tttgattang tanttgnttg ggacgatctt gaagtancag 360  
 cagatcacag atttcnactc cncngcctcg gtcacatgn ggcttg 406

<210> 7371  
 <211> 468  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-085-Q1-E1-A10  
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 aagttttcttc agaattgatt tcaaaatctc tgagctgaag attcttgact tggaacaaat 180  
 atgcctcaca gaacaaggcc gttgaaggga ctcttgcttt tcactggaat aaactttgtg 240  
 ttggtgcaga ccattactcc agtctatgac tttgtctgct tcttgcctta ctgggagaga 300  
 aggagagagc gaatccggca ggancgtgaa gccgcagctg catccttaaa ctcaacacaa 360  
 aaagctactc aagcatctgt tggatgatga actcttctct acatcttctc aagtctctta 420  
 aatcaaaatt cctctttgta agaaactaag ttaccctctg aatactga 468

<210> 7372  
 <211> 399  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-B10  
 <400> 7372

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ccttctctca tcaaacccta atctacactt ctccaattct attccaaacn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 tanatttaca cgcggtctcc gttacgtaaa ccacactgta tctaatagaag aatcagaacc 240  
 cggaggagga gagaccatgg ttgcttctgc ttccgtata gcttccgcga ttcgtggagc 300  
 ttcaacaact cctgtagagt tcacacaaga tgattgagaa agaccatctc aagacnaaga 360  
 ttatcttgcc aagtctgat tttcaacggn tttgtcttg 399

<210> 7373  
 <211> 501  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-B2  
 <400> 7373

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 ttctgctctc aggaagtcta aaagagtcca accaactaaa ggcattgcta atattgctaa 180  
 gcgagaaaga aatagagggtg ctaaacagct tgatgcattc atgaaagaac tggctctacc 240  
 tttaaaaggc tacatggaaa gttttccag gaagaaactc ttgcatccat atgaaaggtc 300  
 tcttattgac ttgacacttg gtgatggaaa gtatgaaaga ggtgttaagg aaaattgatg 360  
 ttctgannga aaaaaagtgc aatcctgttt gggaaangna naatgccttc cctccggggc 420  
 ccaaanggtt ttnccaana aaaggnggn ccaangnan ncnntttacc aaaaggggtt 480  
 tgggaaaaac cnggaaattg g 501

<210> 7374  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-B5  
 <400> 7374

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ggctgaagta gcacagaagc ttgaacaact tgagatggtc ttgtctaata atgatgttgg 120  
 ttctactgtc ttaaacgact ctgttcatta taacccatct gatctctcta actgggtcga 180  
 gagcatgctt tctgagctga acaaccggc ttcttcggat cttgacacga cccgaagtgt 240  
 tgtggataga tccgaatacg atctcagagc aattccgggt ctttctgcgt ttccaaagga 300  
 agaggaagtc tttgacgagg aagctagcaa caagaggatn cgactcggat cgtgggtcga 360  
 atcntccgac gaatcaaata ngctcntggg gctcnttgac tctcaaaggg ac 412

<210> 7375  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-B8

<400> 7375

gaactgttag cctgccgnac cggtcacaaa tcccgggtcn acccacgcgt ccgggtactt 60  
 ggagtgatgg aaagcttggt actcgaatag gaaagaatag tgccaccgtt ctagcgggtg 120  
 tgaaaacggt ggttcgcttt ggggctcctg ataatatatt ggtcaacgga aagcctcatc 180  
 taggaacaga taagctagtt ccattactcc gtaatttcag acattatctt caaagtgcgg 240  
 gagtgactat caagtttgga actcgggtaa gatgatcttc tggtagagga ttctcgtgtt 300  
 gttggagtca gggtttcgga ttcaacaaac caattgcaga ctacctcca gaatttaaag 360  
 gttgatgcaa gttgttcttg caagttgggtc attcagcacg tgacacatan ganatgctca 420  
 ttctcgtaaa tgtccaaant gantcccaaa aaaaatttgc ccgttgggggt tgcgtattgg 480  
 ngca 484

<210> 7376  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-B9

<400> 7376

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ggctgaagta gcacagaagc ttgaacanct tgagatggtc ttgtctaata atgatgttgg 120  
 ttctactgtc ttaaactgact ctgttcatta taacccatct gatctctcta actgggtcga 180  
 gagcatgctt tctgagctga acaacccggc ttctcggat cttgacacga ccnaagttg 240  
 tgtggatana tccgantacn atcnanagc aattccgggt ctttcggcgt ttccaaagga 300  
 agaggaagtc tttgacgagg aanctagcag cangaggatt cgactcggat cgtggtgcta 360  
 atcgtcggga cgantcaact cggtcctggg gtgcncgttg actctcagga aaa 413

<210> 7377  
 <211> 365  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-C10

<400> 7377

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 gaggagggtta tgtgacgggtg gcggcggaag aagtggagga gttacggagg aggaacggag 120  
 agttggagag agaaatggag gagatgaaga aagacatggt tcagctgtgg cggcgtacgg 180  
 tgggtggcgga ggaggccgag gagagactct gctcgcaact ggcgagcta gaggtcgagt 240  
 ctttagatca ngcgcgtgac tatcactctc gtatagtctt tctcatggac caaatctctc 300  
 gtctctcttc ttctctctt gaagtcgttg ttacnaattc gtagatacat taattattan 360  
 tttgt 365

<210> 7378  
 <211> 396  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-C7

<400> 7378

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 caaatcgatc attagtttgc gcgattctat tgccgacact ggaaacttgc tcgccctctc 180



cgatcctacc aatctcccta aggtcgcgtt tctaccgtac ggagaaacct tcttccacca 240  
 tccgaccggc cgtttctcaa acggnccgct catcatcgat ttcattgctg aatttttggg 300  
 gttttccgct tgtgcctcct ttttacggga tctcaaaatg canattttga gaaaaggagt 360  
 taantttgcg gttggaggan caacggggaa tgggga 396

<210> 7379  
 <211> 388  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-C8

<400> 7379

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 gaagtaatgg actcatgggg ttacaagatg atatccgcgg ttgaggttgt tgctgaaatg 180  
 gcagcaattg ggtttggttt gcctaaggat gcatttacat cactcatgaa gcagggtcct 240  
 catcttcttg ctccaacggg aagtgatctt aactgttaca acgaggaagg gacgatattt 300  
 gcaggatatc actatgatct taattttcta acgattcatg gaagaagtag attccctggt 360  
 ctatatattt ggttaaggaa tgganaaa 388

<210> 7380  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-D10

<400> 7380

gaagaatatt tgggtgtaaa ggaagctata ttgttgacc ttcttagagt cataagccac 60  
 caccgagctc gtctaagcta caccaatccg tacaatccgt aagatgtaca cagagactga 120  
 cntggaaaac acaccatttg gggaatcgat gtacggnggt gttacttctc ggccggccttt 180  
 gatgctaatt gaaccgcgtt acaaaatcaa tgganaagac aaatcaaaat ctcaaaaccg 240  
 tgcagcaaaa ccaaccgcag agcaagaaaa caagggtcgt aatccaaact caaaagaaac 300

gtctttctcct gatctaaagg cgaatgtgan agttgggnga atccccctgtt tctgatacca 360  
acaagagtac ctgaagaaac agtancaaag ncagtaatca aagcgggcnc aaaa 414

<210> 7381  
<211> 371  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-083-Q1-E1-D11  
  
<400> 7381

ttggcgagtg acgggggttg ggatgtaatg acggatgaag aagcgtgtga natggcaagg 60  
aagcggattc tcttgtggca caagaaaaac gcgggtggctg gggatgcacg gttgctcgcg 120  
gatgagcggg gaaaggaagg gaaagatcct gcggcgatgt ccgcnctga gtatttgtca 180  
aagctggcga tacacagagg aagcaaagac nacataagtg tgggtgggtg tgatttgaaa 240  
gcctcngagg aaactcanga gcaaaccctt gaactgaggc agagaggggc ctttttctta 300  
atttttanaa tgaatatggg tctctccaag aaaaagtatt taccannaat taagttgtgc 360  
ctattttttt a 371

<210> 7382  
<211> 496  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-083-Q1-E1-D8  
  
<400> 7382

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attagcttca cgaataactgc gccggctcca ttgccgggga tgcaaggggtg gcaagcgggtg 120  
gcgttttagga tctccggcga caaagctttc ttttccggct gcgggtttta cgggtgcacaa 180  
gacactttat gcgacgatgc tggccgtcat tacttcaagg agtggtacat tgaaggctct 240  
atcgacttta tctttggtaa tggccgtcc atgtataaag attgtgagtt gcattcgata 300  
gcgtcaagat tcgggtcgat agcggcgcat ggtaggacat gcccggaaga gaaaacgggt 360  
ttcgcgttcg tgggttgctg ggtaacaggt acgggtccat tgtatgtngg ccnggccatg 420

ggacaatact caccnatacnn ttacgccccca anacttactt tgangncncc ctcgcgacaca 480  
 ggggggttttg gacana 496

<210> 7383  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-E10

<400> 7383  
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 gttcttacta aaccattact tgaagaagaa ttttccaaaa aaatgcaacg agttttacgcc 180  
 ttangctaac aagggtatga taacgttggg gaccgatctc gaaggtagca gtccggccac 240  
 tanagagttc aagactttct ttacacagtt cangtcttac atgtctttca tcgagacaac 300  
 atcggcctca anagaaaatg ttgatgccga natgacagnt aaatgtgacg gtcttttcaa 360  
 ggccatgtct gcattgaatg ctagtaaang gcgtcaaate agcggatgcn gg 412

<210> 7384  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-E11

<400> 7384  
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 aatcgtgtgc tccatctccc aggtttatgg ctacggnacg gtggactacn agagaaggcc 180  
 gattgtccag tggaatgcc a tctacaagaa gatttcgctg atggagaagc cagagcttgg 240  
 cgctgcttcc gtcttgaatc agtgggagaa agccggccgc aagcttacca agtgggagct 300  
 ctgtcgggtc gtcaaggagc ttcgcaagta naagcgggtc caaccaagct ctcganggtg 360  
 tacgaactgg atgaacaaca gagggcgaaa agtttccggg ttgtnctgca agtgatgct 419

<210> 7385  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-E9

<400> 7385

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 attggctatc actaaacgaa gagactgggtg gcatgaatga tgttctttat cagctataca 180  
 gcatcactag agattccaag tatttgtttc tcgcacatct ctttgacaag ctttgctttc 240  
 tcggagtccct cgcaattcag gccgatgata ttagtggatt ccacgctaata acacatattc 300  
 ccacgtcgtg tggatcccaa caacggtatg aaatcactgg tgatctactc cataaggaaa 360  
 tcccgatgtt ctttatggac ataagttaat gntcacaca gctatgcaac t 411

<210> 7386  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-083-Q1-E1-F9

<400> 7386

ctctctctcc acaaagataa gccaacaatg gttggtgatt acagaggacg ctttagtatg 60  
 ccgtcgtttc tccgatgact ctgacgattc ttccgacgat gcttcttccg tggagggaga 120  
 gaccacttct tccatgtact ctgcggggaa agagtatatg gaaacagaat ggactaatga 180  
 gaagcatagt ttatatctna aatctatgga agcttcattc gtagatcagt tatataactc 240  
 gctcggagct ctcggaaga acgagaatgt atccgaatca acgagggtcg gtagcggtag 300  
 aaaaccgtct caagaacagt tcaaggttct tcatgatggt ttctgggcag aagattaatg 360  
 tgaaacanc c tgaacatcgg attaacggaa gggcacggtg gtaattctca tgag 414

<210> 7387  
 <211> 459

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-083-Q1-E1-A9

<400> 7387

accggtcaan aattcacggg tcgacncacg cgccnaaga gtcgcaaatt tttcctcgac 60  
aaaaaatcta cctgctttga tccaaatctc tatgggtttt tatcattaat cgaatttcaa 120  
aattgatgaa tccataatth ttttctctat tcgatttatg agaaattgat tttttttttt 180  
atthttctcc cttgtgaaat aggttaaaga ttattgtttt gttgctgttt gtagttatgc 240  
cggtaatgaa tccatcattg tgtattggta cacaaacatc ggtgtacctc gctccncgtg 300  
agaaatctth tacgagtaat ggnaactctc aaaggcgtha tcctacaagc gtttctaath 360  
caacgccagc cttggagcca aagtaaattc ncttcnctcc agggatgcan gtgcaaccag 420  
ttgtccgtcc tccaangaat aaaagaccaa gtctttgca 459

<210> 7388  
<211> 476  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-C5

<400> 7388

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agagtatgca aatgttcaga actcaatcgc ggcaacctca agttcttcta agatttctga 120  
ttctcataaa ccagaaaca gctcccgcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngagcg 420  
cgctgatcct tctctcgatg ccaattttga aaatggtggc cacaagactt taccgc 476

<210> 7389  
<211> 471

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-D2

<400> 7389

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gaaccttcaa cggtatcttc ctctcactag ctaagaaacc catttcgatt ctctctctct 120  
ctctcgtttc caacatcatt ccatggntga cgatagcgaa ttgtatcctc gtttcttcaa 180  
agtgttcctc gttgaatcgg cttctgaatc gttgatgatt ccgttgccctt ttatggcatt 240  
tcttgctgat ccattgccaa agacagtga gctccaaggt cttggaggaa aactttggac 300  
tgtgagcttg angaanataa gcggagctgc gtatcttact agaggatggc canaattcca 360  
gaggaacatg agctgaagaa cggaganttc atgacatttg tgtatgatgg ncatcgtacc 420  
ttntgaangt nagtgcggtt gatcnttggg ggtagcanag aggtcagagc c 471

<210> 7390  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-D4

<400> 7390

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gattctatca attcgtatac cgtatttgac taccagcca ttgattctct ctccctctct 180  
tcccttttca ttgtttctaa accagctcat ctttctgat ccggacgttt ttccaagatc 240  
gggtccta at tccccgggaa tgggtcctta agttctggaa gaaatccgtc cgctctgtct 300  
ggtaatttca ttgaaggacg gattaagcaa gcgtgtgtga agatcagaaa agacggattc 360  
aactatgaag caccagaag caagtggatga ctattcggga cctggtagat gaagccaaga 420  
aacgaattgt aatcgtgggc atatgcgtcg tcggacttcc ctanctcatg tcttgacaaa 480

<210> 7391  
<211> 480

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-D5

<400> 7391

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ccaagttcct caccttgaaa tctccaaacc caattccaaa aagagggtcta attgtttatc 180  
tttatctctc gataagcctt tcttcaactcc cttatctctt gttcgtagaa ctcgctgtat 240  
ccattcctct tctcttcttg ttccttctgc tgttgctact cctaattctg ttctcagtga 300  
agaagctttc aaaagtcttg gtctttctga ccatgacgaa tatgaccttg acggcgacaa 360  
caacaacggt gaagctgatg atggtgaaga actcgctatc tctaaactta gtttgccctca 420  
acgtcttgaa gagtctcttg agaaacgtgg tatcactcat ctcttcccca ttcagagagc 480

<210> 7392  
<211> 515  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-E2

<400> 7392

gnttcgtttg gccgtggccc ggtccgnaaa ttanangggg cgacgcacgc gtccggcnac 60  
atacaccggt actcatctga ccaagctagg gtttcgcagt catcatcatg taccgtacgg 120  
cagcttctcg agccaaggcc cttaagggca ttctaaacca caattttcga agcttctccg 180  
ttatgcaagt tctagtgtg ttgcaacgag ctcttcttcc tccagctggc taagtggagg 240  
ctactctagt tcaattcctt ctatgaacac tcccttggct ggtgtctctc ttccaccacc 300  
actctctgac catgttgagc ctagcaaact taataccact actccttcca antggtctgg 360  
actatagcca ctgaagatgt ctccgaaatc caagcaagct tccatttggg ttatacnttg 420  
actgtgggnt ctannttatg aggacnctc aantccgttg gaaccgacng cacttgnttn 480  
aaaaggatgn gcatttcaag gaagtacnat ttgaa 515

<210> 7393  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-E4

<400> 7393

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 acataagcga ancgacagag aaaaaaatg tcttcgccaa agcaaacgca gngaaatgga 120  
 tangatgaan ctgatgatga gcgattataa agtggaacg atcaacgatg gcatgcaaga 180  
 attctatgtt gaattcaatg gtcccaaaga cagtctctat caaggagggtg tgtggaagat 240  
 aagagttgag ctccanatg cttatcctta taaatctcca tctgttggtt tcattactaa 300  
 aatttatcat cctaagtgtg atgaactgtc gggttctgtt tgtttagatg tgattaacca 360  
 aacttgaggt cctatgttcg acctgtgaa tgtgtttgag acatttcttc ctcagcttct 420  
 tctgtatcca aanccatc 438

<210> 7394  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-E6

<400> 7394

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 aagaggagta aataatattt gttttaaaga aatgattctc cacaaaatgg cgttcttggtc 180  
 cgttattctc ttcttcttga taagcagcag cagcggttgc gttcatagcc gtgaaacgtt 240  
 tgcttgcatg acaaaggacg cagcaacagc tacactgaga ttctgccagc tttcagttcc 300  
 tataccggag agagtcagag atttgatcgg acggttgaca ttgggccgag aaagtgagct 360  
 tgtaggggaa cactgcggcg gcgataccac gtctaggaat caaagggtac gagtggtggg 420  
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 aacctgc 487



<210> 7395  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-E7

<400> 7395

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tcttcttcat acgttcaata attcttacga ggacgagatc ttctaacgt ctttgatctt 180
cttcattagg agataagtct aaactgggtcg aagatgttgg gagatttcat catcagactc 240
cttgatttga tattagggtg cacataccca gcattcgaat gctttaaaac ggtggagaag 300
aaciaaagttg atatcgagga actcagatct tgggtgccaat actggatact tttggcgcta 360
atttcatcat tcgagagggt tggcgatttt tttatctcat ggttaccgtt atacggagag 420
atgaaagtag tcttccttcg tatactctct ggtaccctaa aaciaaagggg aacgagacat 480
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<210> 7396  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-E9

<400> 7396

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gatctaagat acttcggttt gaagacggtt atgcgagggtg atgttgaatt cgagggtcaag 180
agccaaaggg aatatgaaat gtggacacaa ngtgtctcaa ggcttcttgt tcttgctgct 240
ganaggaagt ttangatgtg aataaacgtt caatggctgc ttggtttaag tgtgagtttt 300
tttttaactt atgtgggtcaa atttcattag taggggttct ttttaaggtaa tgngtttttt 360
gggttgggta taggatnaaa tggacctacc aagtcnaggt gaggaagcat ttggggtaaa 420
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cnaaacttag tgggggtgat ctgtantaac cnatgttctt aggttttttt tng 473

<210> 7397  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-F12  
  
<400> 7397

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gaatggngcg aaaatcccta attttcccggtg tgattttgct cgccgttctt ctcttctctc 120  
cgccgattta ctccgccggt caccgattacc ngcgacgctc tccgtaaaag cattctcttc 180  
ttcgaagggtc aacgttccgg taaactccct ccagatcaac gcttaaaatg gcgccgtgac 240  
tcagcattac gcgacggttc ctccgccggc gttgacntat ccggtgggta ctacgacgcc 300  
ggagacanca tcaangttcg gttttccgat ggcggttcaca acaacgatgc tttcatggng 360  
tataatcnat ttcgggtaaa accatgggac ctgagcttag aaacgccggt gaaagctgtt 420  
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caa 483

<210> 7398  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-F4  
  
<400> 7398

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnt cgattcggtta agcttgcata aagctctctg tgaactcctg agaagttgtc 240  
tttgagaaag aacttggcaa cttctgattt gccgaattga ttgttggttg cttgagtagt 300  
tttttttgag gagctatagg gaatttgatt gtggtttgac cataagttgg cttcaatatt 360

gtagagagga ttactacttc aaacaaagct cgaaaaactc atangttgtg gtgaagctaa 420  
 attatgctag ggaaaccggt gatgtaactc ctggaagcaa ctctacggaa gatatcatcc 480  
 tcctcttgaa gatgt 495

<210> 7399  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-F5  
 <400> 7399

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 tctgtaattt ccgatagatt ttgacaacnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
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 tccgaacgaa gaagacacaa attggagctt cactggacgt tgatgataaa gcatgaatca 360  
 cggagggaac actcaggccg tagcaccaat ggaccctaatt tccattgaga atcgatatgg 420  
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<210> 7400  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-F6  
 <400> 7400

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 tacagatgtt ggatggtgta accattgttc gatctgagaa ggtgaaggat gagattgttc 120  
 ttgacggtaa cgatatcgag cttgtttcaa ggtcgtgcgc tctgatcaac cagaaatgtc 180  
 acgtgaagaa caaggatatc aggaanttcc ttgacgggat ctatgtagc gagaaaagca 240  
 agatcgtaga ggaagaatga atactcatat tcccctctta gctcatattt cttgtgtttg 300

gaatgttgtt agttttgttt tatggaccac atccancggt gangtaaacc ttgccttttt 360  
 tttgttcgan aattttattan acttatgcac caagggttttg gngacaattt ngangacca 420  
 ttcactctca cacttttttg canattacct cttcccggat gaa 463

<210> 7401  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-C4  
 <400> 7401

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 cgggtactcat ctgaccaagc tagggtttcg cagtcatcat catgtaccgt acggcagctt 120  
 ctogagccaa ggcccttaag ggcattctaa accacaattt tcgagcttct cgttatgcaa 180  
 gttctagtgc tggtgcaacg agctcttctt cctccagctg gctaagtgga ggctactcta 240  
 gttcacttcc ttctatgaac actcccttgg ctggtgtctc tcttccacca ccactctctg 300  
 accatgttga gcctatcaaa cctaagacca ctactcttcc aaatggctctg actatagcca 360  
 ctgangatgt ctccgaatcc agcagcttcc attggtttat acgttgactg tggttctatt 420  
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<210> 7402  
 <211> 448  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-A12  
 <400> 7402

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 tttttactac aaaagcaaca atgtagtgac aggtaaaaga gtgttttcca taaaagcaca 180  
 aatcacaaca gaaacagata ctctactcc tgcaaagaaa gtanagaaag tgtcaaagaa 240  
 naacgaggaa ggtgtgattg ttaacaggta cagacaaaa gagccttaca ctggaaaatg 300

cctttctcaac accaaaatca cagctgatga tgctcctgga gagacctggc acatgggttt 360  
cagccatcaa ggagaaatcc cgtacagaga angacaatct gttggtgtga ttgcagatgg 420  
aattgacaag aatggaaagc ctcacaag 448

<210> 7403  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-A2  
<400> 7403

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tttgtttcaa tctccttctt tactgctca aacttccgaa aggttgatat ttctgacgcc 180  
caactgtcct ggcttcatgc gaattanctc cggacctcaa ttctgtctca gacaaaactc 240  
ttctcttana ttctcgagac catttcaaan cggaacaact tgtgttaaata ctcggaagaag 300  
ctttgtggtt aaangcttca gcttctggtg atgcttcaac agaataata gcgccgcttc 360  
agttgaagtc tctgtggga cagtttctgt cacagatata ngtgagccat cctcatcttg 420  
ttccagcagc tgttgaana 439

<210> 7404  
<211> 496  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-A4  
<400> 7404

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taaganagag agaattggan gagaggcaga ngctttggcc acgacggcac cgttagctcc 180  
ggtcaccagt cagcgaaaag tacggaacga ttggaggaa acattaccaa aaccatacat 240  
ggcaagagca ttancagctc cagatacaga gcatccgaat ggaacagaag gtcacgatag 300

caaaggaatg agtggttatgc aacaacatgt tgctttcttc gaccaaaacg acgatggaat 360  
 cgtctatcct tgggagactt ataagggatt tcgtgacctt ggtttcaacc caatttcctc 420  
 tanccttttg accttactca taaacttagc gttcagctac gttgcacttc ccagttgggt 480  
 gccatcacca ttaatg 496

<210> 7405  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-A5  
 <400> 7405

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 agaaatatgg agagttatcc caccatctac ctattgtctc aaaatcgaat ctttcataaa 180  
 attcgccact tctccaaacg ccgagaagta cgaatcccgt ccttttgaat ccggtggata 240  
 caactggaca cttattgtct atcctaaagg aaacattaag gaaggagctc cacttaatta 300  
 cgtttcaatg tacgtccaaa tagacaattc aacactcctt aactctcaa aagaagttaa 360  
 cgcagaagtc aaattcttca tttataaccg gaaagaggac aagtacttaa catatcaaga 420  
 gacggatgca aaacgctttt ttctgttcaa accatattg 459

<210> 7406  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-B10  
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 cttctccga ttaaaaatcc cttctctttc gatcatggat gtgtctaaag ttgtcagctt 180  
 ttcccggaat ttccgctct tgggtcaaagt cgaaggccct gatccaaagg gattgaanat 240

gaggaagcat gcttttcatc aataaccattc tggcantgca acactttcag cttctgggat 300  
 cttgcttcca anagatattt ttttgagtgg tgaggtcgct gctaagggtc tgtttgaagc 360  
 tggtcaggac atggccctgg ttttgaccgt tgcattctgt gttgagccat tcttaacatt 420  
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 atgattgaaa 490

<210> 7407  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-B11

<400> 7407

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 aaaatgcggg aggcacanat gtgcaatatt ctgggccggg tcaactctga tgccaagaca 180  
 gctaaagcgt ttaaagaaaa gatcgatgat gagtaccggg tcaacatgat cctcgacaac 240  
 cttcctctgg ttgttccaat tgaaagagtc gaccagngtt ctccctctgt tgtttatcat 300  
 cttggttata atgttggtct taaaagccag tacganggga gcanaganca gaagttcttt 360  
 atgcacantc acntggcatt tacagtccgc tatcacaaga gatatccaaa ctgatgctgc 420  
 aatgaatcct gggatttgag gttcaacctt acantgttga atcatganta tgag 474

<210> 7408  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-B3

<400> 7408

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 atcgatctta ggggtgctaaa gggatctatg acggcggttg tgaagaatct ctacttgtct 180

tgtgatcctt acatgcgaaa tcgtatgagg aaacctgac ctctgagccc tgctactgct 240  
cagtccttca ctcccgcaa gcctatctca gggtttgagg tgtctaaagt gatagattct 300  
ggacactcac nattacgaac gaaggtgact taatttgggg agcagtagga tgggaagagt 360  
acagtgttat tacaccaatt cctaattctc acttcaagat ccatcatacc aattttcctt 420  
tatcttacta cacaggactt cttgggtatg cctggnatga ccgcntatgt tgggggtt 478

<210> 7409  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-B4

<400> 7409

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gggctttgat tttaaaccgt ttgttcatcc aatctacaat gcgataatgt cccgcttgac 180  
aaatcaagat caggaccagg aggtcaagga gtgtgctatc acctgcatgg gtcntgtgat 240  
ttcaacattt ggtgatcaac tgagggcaga gttaccttca tgccttctg tgcttggtga 300  
toganaggga aacgaanac actcgctca ctgcagtaaa ngcattttct gtcattgcca 360  
cttctccgct tcacattnat ctatcatgtg tcttggaaca ttgattgca gaactaacan 420  
gattcctacg gaagggctaa tccggttcta anggcaagca aactgatta ctatgaanac 480  
ctt 483

<210> 7410  
<211> 464  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-B5

<400> 7410

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agtgtatgta ggacaagata tcaatcgtat cacttacgtc aaattcgagt atgtgaagga 180  
 agacggccaa gtcgtaacaa ctgaatatgg gaaaatcatt caacaacca aagagtttgt 240  
 acttcaatat ccggacgaac atatcatagc ggtggaagga aactatcgcg gagtggctct 300  
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<210> 7411  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-B8  
 <400> 7411

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 gtgagtttat tttggggggc gaaatctgtc ctggaggata cagaagcaag atgaagttaa 180  
 tagatcgaag aatgaggtta acggagctgc tcttacgggtg ctccatcagt gtcttcgctc 240  
 tcctcgcgct tattctagtt gtgacagaca ctgaggtcaa gcttatcttc actatcaaga 300  
 agacggccaa gtacacggac atgaaggcgg ttgtgttctt ggtgggtggct aatgggatag 360  
 ctgcggttta ttctttgttg caatcaagtt ccgttgcggt ggtgggggtac gatgaaagga 420  
 aaggttttgt ttagtaaagc ctcttgctt ggggcctttt ctctgggtg atnaaggcga 480  
 tgggcgt 487

<210> 7412  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-C1  
 <400> 7412

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 tgtccgaata atctctcttc aagtacctct tttttctgat tctgtatata gccatgaant 180  
 actgatttcc ctctctatan acccatcana gtaaaccaat ttctcctgtg acttgtagctt 240  
 aactcgatct taccanactg gtgatggcgt ctttgaaccc ttctgatctt ctaggagatg 300  
 atgctganga tncaagccag ctgctgtgtg ntttgcgca naangtcnag aaaagctgct 360  
 gctgctgttc aagccctcct aaggncngct aagttccnaa acaagncggn tcctccttct 420  
 caagcaactg acgggantcn aaggaatgcc tectncaagg gacgtccgtg gntgggactg 480  
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<210> 7413  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 <400> 7413

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 caattccgtt ccgtttgttc ttcattggcga tccgccgccg agccgaaaag tcctcttcca 180  
 acacatcatc ncccgatcct ccccgataac gggggggagtc ncttcctga ttccgccgtt 240  
 ggtttccgtc tctcgcaneg gagtatctta cntatcaagc ctcatgaacc gtgtatcgaa 300  
 ncggattcgt ttggatgggt gatcaangtc gaggaanatc ntaatgttcc tcntaagggtg 360  
 actcttttag atcngtnang tgatacnaga aacncaattc ctgagaattt ccctcgtgtt 420  
 ctcgatatgt ccaantttta ngttcgagaa ttgggtcgtg aattcaagc 469

<210> 7414  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-081-Q1-E1-C3  
 <400> 7414

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tttccagaaa gcaaaaagcta ttcgaatgcg taacagtcac aacaagtatc taacagcaga 180  
cgacgatgaa ngaaaccgta actcaaaacc gtaacggatc taccaaaaac gctcgatgga 240  
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acttaaccgc ttctaacgag cggttcttgc tcggggctac ggggaagaaa gtgattcant 360  
tgaaactgag tcgggttgat tcgtctgttg agtggggaacc gcntagagga aggggtccta 420  
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<210> 7415  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-A11  
<400> 7415

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cagaatctgg ctggtcacgc ttctgatgtg ctcgagaatc tgactcccaa tgtgagaaa 180  
cgcgttgatg ccttgagggg tatacagagc caacatgatg aactanaggc aaaattccgt 240  
gaggagagag ctattcttga agccaagtat caaacgctgt atcagccttt gtatgtcaag 300  
cgttatgaga ttgtgaatgg cactactgaa gttgaactgg ctccacanga tgataccanc 360  
gtggaccaag gagangagaa aactgcagaa gagaaaggag ttccaagttt ctggctgaca 420  
gctctgaaaa ataacgatgt naattccgaa ggagg 455

<210> 7416  
<211> 389  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-080-Q1-E1-D9  
<400> 7416

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 tctagggctt tctttgtctt tgggtgactct ctcgtcgaca atggnaacaa ngactacctc 180  
 gtcaccactg cncgtgccga caattaccg tatggtatcg actacccgac ccgtagaccc 240  
 accggacgtt tctcgaacgg ccttaacatt cccggacatt atcagtgagg ctataggcat 300  
 gncgtcgact ttgccgtang ttagncgggc atctcaccgg aagaaaatct tcnaggtcgg 360  
 tgctaatttt gcctccgnag gaatttgga 389

<210> 7417  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-080-Q1-E1-E7  
 <400> 7417

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 atgccgagtg tttgctagag aagaacttcc atgaggattg ttctggctgc aaggttgatc 180  
 agatgaagag gcttcgccgt ggatttcctt tctgggagct ttttaccgtt tggatcatcg 240  
 ttctttgcac cgttttgccc atttcttctc tattccccct tctcnacttt atgattgatg 300  
 atttcaacat tgcaaagaat gaagaggaca ttgggttcta cgctggattt gttggttgct 360  
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<210> 7418  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-080-Q1-E1-E8  
 <400> 7418

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 tgctcgtcac acttcgtcac tccaccagcg acaatcgccg cagaaacctc tacgaaactt 120

gctacaatgg agttttcatc acaagacgac gattttggag gagacgattc cgctgctaata 180  
gccaccaggg cttcaggtaa tanaagaagc ttcggtgatc ttgangacga tgaagatgat 240  
attttcggat caacaacggt agcgccctggt gttagaactg ggatgatttt gtctctccga 300  
ggaagtctta agaattgtaa agatgatctt gcttcatgtc anaatgagct cgagtcagca 360  
anancagaga ttcaggaagt gggagtcagc ntttcagaag tnggtccctt tgg 413

<210> 7419  
<211> 350  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-080-Q1-E1-E9

<400> 7419  
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tgctctgtgt tggtgctgtc tcttgatgc ttgcttctga ttggagtctc tctctctctg 120  
cataaagctt cgggatttat ttgtaagang gttttggtta acaaaaaacc ttaattgatt 180  
tgtggggcat taanaatgaa tctctcnatg attctcttct gttttatgtg taatgttctt 240  
cggttcataa cattttaact attgtctanc gacgttctgc cttagtttgt atttgattat 300  
gggaatgtaa attggttggg agacactatt ctaaanaaaa anagaaaang 350

<210> 7420  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-080-Q1-E1-F2

<400> 7420  
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ccaagcttaa agcttttagc tatgacgaat tcttctctct cgaccctttt ttgtattcct 120  
tctatcttca acatctcgtc ctctgaatct caccgcttca attttctct atcctcacga 180  
cncgttaatc tcacactctc tctcaaacc aaaactcttc gtaactcatc tcctgttgtt 240  
actttcgttt cccaaacttc gaattgggct gaggaagaag aaggtgagga tggaaggcat 300

cgngagggtac ttcagtcact gtagatgaag agtttcgagt ctgaangacg gtggttgntt 360  
ccggagccan cggnagaggn taaattaatc ggtcggnaac tttgcgtac 409

<210> 7421  
<211> 418  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-080-Q1-E1-F3  
  
<400> 7421

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ttgccctcta cttcattccc tccttgtttt gatttcacg tctttgtag ctctcctctg 120  
tttttttttc ttagtcaatc gatggcgaag gagcttgctg ataaggctaa agaggctttc 180  
gtagacgatg acttcgatgt tgctgttgac ttgtactcca aagccattga cttggatcct 240  
aattgcgctg agttcttcgc tgatcgtgct caggcctata tcaaactcga aagcttcact 300  
gaggccgtgg cagatgcgaa caaagcaatt gagttggatc cttcattgac caaagcttac 360  
ctaagaaaag ggaactgcct gtatgaagct tgaaagagta tcgggctggc taaaacag 418

<210> 7422  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-080-Q1-E1-F5  
  
<400> 7422

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gccataagca atacaaccat ggcaaggatc tctctgttgt tctcattagc ctttgtttta 120  
gccctcggtc cagtgttctt ttccgtttcc ggtaacgctc ctcccgtgac accgagaaaa 180  
tcagcatgtc caaaaacagt atccgaactc cagaccttac cttttaccga aatcactgag 240  
atcctaaacc gaaaagagcg gtctgccccg aaaaccctg agttcaaggc aatgttcaca 300  
atgtgcaaag gctacgtgac atacctcgag agcctctaca agtttganga atcncattgg 360  
tagatgtttt aggaattgcc aagaccaaga tacaccctg angaacaagg gcaattcct 419

<210> 7423  
 <211> 387  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-080-Q1-E1-F7

<400> 7423

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gggctaattct gaatacaact attactaaca ataattcact tatctaaaga ccatcatctg   60
actgactcta cgctgaatca tcacgaggaa gacttgaatc gaccggngaa gagatacgtg  120
tagagatctg attggctcac cggagagaa aaancangaa atggggagga cgacgtgggtt  180
cgacgttgac gggttgagga aaggagagtg gacggcggag gaagaccgga agctcgtggt  240
ttacatcaac gaacacggtc taggcgagtg gggttcactg cctaagagag ccggtctaca  300
aagatgtgga aagagttgta gattaagatg gctgaattan ttgnggcctg ggattanaan  360
gaggcaagtt cacnctcac gaagaag                                     387
  
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<210> 7424  
 <211> 364  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-080-Q1-E1-F8

<400> 7424

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tctgaatcg aagcagatcc tgatcgaatc gaangtggtc gaatgatagc taccagtaa  180
attcagaacc ctaattaaca atgggcggtc cggacgcgaa ggacattcnc gggttgccga  240
anaactccact gtctttaact caggagaaga aatctcganc ccagaaagag tcccatanaa  300
aaccnatgg catttctcgc gaggtttatg cgcttaccgg nggcgttgca cctcttanc  360
cttg                                     364
  
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<210> 7425  
 <211> 395  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-080-Q1-E1-G10

<400> 7425

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agcctagcat caacctatgg aaagatcggg cttttcataa tcgcttccgt tgtaggaagt 120  
gatgggtggg tcattgcggg tttagctgcc tgtgggtgta tgatgtcaat cgtctccacc 180  
gnagctgata tcatgcaaga cttcanaaca ggttaccta ctttancanc tgcaaagtcn 240  
atgtttgtaa agccanctcg tgggaaccgn aatgggctgt gtaatcgctc nactcangat 300  
tctgggtggt ctggactgcc tttgacattn ggaggatccn aatgggcccc tanaaagcaa 360  
cttaagnaag ngnttttccg tgaaaattgg ggnat 395

<210> 7426

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-080-Q1-E1-G3

<400> 7426

acgcatecgc ccacgcgtcc gccacgcgt ccgggggttt tgtctctagc ctctcaagc 60  
tttgaaaca atcatggcga ccagatcag cannaagaga aagttcgtag ccgatgggtg 120  
gttttacgct gaactcaatg aggttctaac cagagagctt gctgaggatg gttactctgg 180  
tgttgangtt cgcgtcactc ctatgcgtac tgagatcatc attagagcca ctccgtactc 240  
aanacgttct cggtgagaag ggaangagga ttagggaatt gacatcnctt gtacaaanng 300  
agattcanat ttctcagag acagtgttga gctttatgct ganaaagttg cgaacanaaa 360  
gtcnttggtg cgattgnaca ggcnagctct ctccgntaga aggcttcttt gcngngtcct 420  
tgcttg 426

<210> 7427

<211> 437

<212> DNA

<213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB24-080-Q1-E1-G7

<400> 7427

aattccccggg tcgacccacg cgtccatctc gttctgatta ccatgaagag gttatcgaac 60  
ttttcaaaca catgcttcaa tcaaacatcc gccctgataa gtacacattc gttagtatct 120  
taagtttgtg ttctaagctc tgtgacctta ctcttgggag ttctattcat ggtttgatca 180  
ccaaaacaga ttccagctgc gctgacacat ttgtatgtaa cgtactaatt gacatgtatg 240  
ggaaatgcgg aagcattagg agtgtaatga aagtctttga agaaacaaga gagaaaaacc 300  
tcattacatg gacggcattg atttcgtgtc ttgggcatcc atggatatgg acaggaggca 360  
cttgaaaagt ttaaggaaac actgtctttg ggttttaagc caagatcgtg tctcgttcat 420  
cncattcca actgctt 437

<210> 7428  
<211> 431  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-080-Q1-E1-G8

<400> 7428

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accttccttg tggattccca cttctttctt ctgttttctt ctctctcttc tttaaattgg 120  
atgttttggg caagaaacag agagaaacac gttaatttga gagtttgtca ttgaatattt 180  
ggtttgcaat ggaaagagat tttctgggtt tgagcgacaa gcagtatcta agtaataacg 240  
ttaagcatga ggtaacgat gatgctgtcg aagaacgagg gttaagtacg aaggcagcta 300  
gagaatgggg gaagtcaaag gtttttgcta cttcaagttt catgccttct tcagatttcc 360  
aggaggctaa ggcgtttccg ggtgcatacc agtggggatc agtttctgcg gccaatgttt 420  
tccgcagatg n 431

<210> 7429  
<211> 480  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-A1

<400> 7429

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cgagtgcgtg tatgtccggg caatggttat caaagcattg atatggatgc aaagtccaga 120  
tgaatcattg gatgagttaa aatcaatcat tgcctcggag ctttcagatc ctgggtggcc 180  
tgcagctcta gtcaatgatg ttttgcttac tttgcatgcc cgctttaagg caactccaga 240  
tatggctgtt attcttctcg aaattgccag aatatttgcc accaaagttc cagggaaaat 300  
tgacgctgat gtctacagct gctatggaag acatgtcctt gttggagcct gggctctgac 360  
gggaaacaca canctctggg aagcantcac gaatagtacn ccatacaaa actccaacaa 420  
ccgggggtcc aatggcttgg actgacatca aattgatagg gnctctgcat caaattccta 480

<210> 7430  
<211> 486  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-081-Q1-E1-A10

<400> 7430

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ctcgccggtc ccatgggtact tacctcttga caaatgcct cnangctctg aagcaggccg 120  
gttttgaagt gatatgggaa aaggatctgg ccaaggactc gccggtccca tgggtacttac 180  
ctcttgacaa aaatcatttc tactcagta gttccgcct tacagctgtt ggacgattca 240  
taacaaaaaa catggtcaag atccttgaat acataaagac ttgcacctca angaagccaa 300  
anggtctcaa atttctgga gcangctgcg gaangattag tccgacggtg gaaggagaga 360  
gattttcacg ccaatgtatt tcttcttggc ccggaagcca gagtaagcgg atgagagatg 420  
gcgatggtca tcgtaggtcg aatgaagtga canaatttct caatttgcag tcttattttc 480  
tatgtt 486

<210> 7431  
<211> 394  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-080-Q1-E1-D8

<400> 7431

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tcttctggat tatcttaatg aatcctggac acagtttcac gccactgctg aggccaagag 120  
acagcttttg gctgctgggt ttgatctcct cagtgaaaac gaagactgga atctgaaacc 180  
tggtggccgt tacttcttta cacgaaacat gtctgtttg gttgcttttg ctgtcggaga 240  
aaagtatgtg cctggtaatg gttttcatgc catagctgct cacaccgata gcccggtgtct 300  
taaacttaaa ccgaagtctg cttcatccaa gtctggcnat ctcatggtga atgttcaaga 360  
cttatgggag gtggttttgtg gcacacatgg nttt 394

<210> 7432

<211> 462

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-079-Q1-E1-A7

<400> 7432

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gaattggacc gattactcag gattgggaac cagttgtgat ccgcaagaga gctcctaacg 120  
ctgcagctaa gcgcgacgag aagactgtca acgccgctcg tcgaagcggc gccgatattg 180  
agaccgttcg aaaattcaat gctggatcna acaaggctgc atcaancggc acctccttga 240  
nacacaaaga agctagatga tgatactgag aacttatctc atgatcgtgt tgccactgaa 300  
ttgaagaaag ccatcatgca agctannagg ggagaagaag ctgactcaan tcccaanctt 360  
tgcncatctg attaaatgag nanccacaag tgatccannn aatacgangt ctnggggaan 420  
gcaaatcccc aancaacaag attcttttca aagctggaga ng 462

<210> 7433

<211> 445

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-079-Q1-E1-A9

<400> 7433

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acaaaagttg ggtagaaaaga ttgttcgtga tgaatccttt ggaaatcctg gaaaacgccg 120  
gttcttggtg gatgctgang atatttggtga tgtatttacc gataataccg gcacacagan 180  
tgtactagng tatatctctt aacacattgg aaatcaacgg ggacattgtc tgtagatgat 240  
aaatcattcc acggtatgca taatctccaa nttcttaaag ttttcganga attggggcggc 300  
gggggaatgg tgaangcata ttgtccttac ctcaaggcct canattcttt gccccgaaan 360  
actcagacta cnancactgg tataaaattcc cgttgagggtg tatgncttct aacntcaagg 420  
gccgaagtat ctgggttaac caana 445

<210> 7434  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-079-Q1-E1-B1

<400> 7434

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ggagctctcg gaaatttgct tcccccttgt cgtcgtctcc ctatctactg cttcttcttc 120  
gttttcgtct tctttatcaa ggaatgctgt ttaattggaa tcaacaatgg agaatttgac 180  
ggaaatagaa tcaacgatgg agagttaaac ggaaatggag agtgagagag ttgaacaggg 240  
taccgataag gaaattggaa gtggagagaa aaggcaggat gatgtaaagg aaacggagaa 300  
tgagaattct gggagagaga gtangagagg aagctcctgt cagggaacat gaaagattct 360  
ccatgtctca ttgttattga agaangtact tccctaactt cccttgaaga agtgaccaat 420  
gctgatgatc tgccgaaaga ttgatgatga gaaagaantc ccaanttga acaagcccgc 480  
atccaagtcc ctctcctca ata 503

<210> 7435  
<211> 450  
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-079-Q1-E1-B10

<400> 7435

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tcctcctcct ctgatcgctt cgggttctag aactcgtaaa ccagaaaagg ctgttcctga 180  
agtgattgat gtggaaagtt atgaattccg caatgttggt gttgttaagg ataacaatgt 240  
tggtgataag aagaacaaag ggaaggcaat acaagttgac tccttttctt tcaacaacgt 300  
tcaatctcan catcatggat cgtcgctgnt taacttagag acgttccaag actattangg 360  
tcataagaac atccctttta gtgaatttgc tnantcaacc aattgancgt tgatgactan 420  
tcantgtagc aagacgttct aaattctaan 450

<210> 7436

<211> 453

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-079-Q1-E1-B3

<400> 7436

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gagttttcaa gtttaaaacc tctctacctc gatttgagca aatcctgatt tactctcatc 120  
ctcatcatct ctcatcatcg agattcatag tctcttttgc cgcttggatt cttccaaggt 180  
tagtgagctg ctatggcaac tcatacagcaa acgcaacctc cttecgattt tcccgtcttt 240  
gccgatgaaa attcccagat tccagaggct actaagcctg ctaatgaggt tcagcaagct 300  
accatagctc acgatcctcc aacatctgtg ttttaagaatt ctgaancaaa tacgggaaga 360  
ttaaanttca gaaacgcta tcaaaattcc ctttccancc ganggggtan aggntcccc 420  
tggtaaaaca tagaaaattc tttccttggn aag 453

<210> 7437

<211> 457

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-079-Q1-E1-B7

<400> 7437

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atctacaagc agcactttca gaaacaatga gactttaccc tccaatacca atggaaatga 120  
aacaagccat cgaagacgat gtgtttcccg atgggacatt catacgtaaa gggtcacggg 180  
tttactttgc gacttacgcc atgggaagga tggaatccat atggggaaaa gactgtgaat 240  
cattcaaacc agagagatgg atccaatcag ggaatttcgt gaatgatgac caatttaa 300  
acgttgtgtt caatgctgga ccaaggctgt gtttagggaa aacatttgct tacctacaga 360  
tgaagacaat cgctgcttca gtctgtctta ggtactcaat aaagggttgc aaagatcatg 420  
tanttgtccc ccagaagtaa ctacaacott gtanatg 457

<210> 7438

<211> 456

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-079-Q1-E1-B8

<400> 7438

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tcaatcggag aaactgattc gacgaacatc atgagtcgct acgatagccg gaccggcgat 120  
tccacctcgt accgtgaccg tcgaagtgc tcagggtttg gtgggacttc atcatatgga 180  
agctcaggta gtcatacatc tagcaaaaag gataacgatg gcaatgaatc tccaaggaag 240  
ctagatttag atggtttgac tccttttgag aagaattttt atgtcgagtc tcccgtgtg 300  
gcggctatga cagacacaga agtagaggaa tatcgaaagc taagggaat tactgttgaa 360  
ggcaaagata ttcnaaaact gtcaagagtt ttcgtgatgt tggctttccn nattatgttt 420  
tggaangaag ttaagaaggc tggtttttac tgaacc 456

<210> 7439

<211> 490

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-079-Q1-E1-B9

<400> 7439

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atgaaaatcc tctcactttc acttctcttg ctcttgccg ctacggtctc ggcacccgtt 120

ccagggctca tcgaactcgt cgattcgaaa accatctttg ggaacgtanc cgaactctta 180

gagaaagaga aactttccat caactacgcc aactgcagaa gctggcacct tgggtgttgag 240

acctctaaca tcatagactt cgacacgggtg cccgcaaatt gcaaagacta tgttgaagac 300

tacttgatca cttccaaaca gtaccaatac gactccaaaa ccgtgtgcaa ngaggcttat 360

ttctatgcc aaggacttgc cctaagagaa cgacaccgtc aatgtttgga tctttgacct 420

anatgatacn ctctctctta ntattcccta cnacncanag tatgggatac gggacagaga 480

aggaccgncc 490

<210> 7440

<211> 520

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-079-Q1-E1-C1

<400> 7440

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gaaaaaactt ccatgggact gtgctatgtc cgtcgggcga caacatcgac actgaccaa 120

tcattcccgc ggagtttctc actctcgtcc cttcgaatcc agaggaatac gaagaaactc 180

ggttcttaag ctttagttgg tcttcagct tcttacaagg aacgattcgt tcanccagg 240

gagatgaaga cgaagtactc aatcatcatt ggcgggtgaaa actttggatg tggatcgta 300

cgtgaacatg ctccggtttg tttaggagca nccggagcta aagcagtggg ggctcantcn 360

taagctagaa tcnttttcag gaactctgtt gctactggtg aagttaacc tttgggattc 420

cgaaattaag gtttgtgatg aattgtacaa ctgggtgatg ttgccaaactg gttgaattta 480

agggaaggag agatagtaat tttgatnaat catacgactg 520

<210> 7441  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-079-Q1-E1-C10

<400> 7441

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 aagagacgag tttgatatct aaaggaatca tttttgacgg atttaggatac taagtaaacc 120  
 ctagattgac cgaatatgag tactcaagcg acgggtcctt cttcaacatc agggaggaga 180  
 agcaattcta ctgtacggcg aggaccacca ccttctaaga aaccagtaca atcagagaat 240  
 ggaagtgtta atgggaacac ctcaaaaccc aattcacctc ctctcaacc tcaatctcaa 300  
 gctccttcta atggagagag aacagtgaag aagcttaggt tatcganagc tcttactatt 360  
 cctgaaggaa ctactgtttt cgatgcttgt cgaagaatgg gctgctaggc gtgttgatgc 420  
 ttgtttgttg actgantcaa ggtgcgcttc tttccgggga tt 462

<210> 7442  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-079-Q1-E1-C12

<400> 7442

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 cgctctcttt cgctctttct tcttccccgc agttcccgga gacgacgccg gaggaaaatc 120  
 gtacggaaac ttgcttcga cttcacgtgg ccgctccacg aagcgctttt gggtttcgtc 180  
 tccccgctt ctctttctct ctcttctttt gcctttgtta ccacgaatag aacgagagga 240  
 gagagatagg aggagagttt tgggatattg gtggagagcg attatcggga gagccagaga 300  
 aaaaaataag cagcttcttc ctccctcatc gttgggaccg tgacttttgt tttcttcagc 360  
 ttttaagcana caagaanaaa agatgaccgg cgttggcgan gaatcagctt atctccattc 420  
 aacctgatga actcaanttt ctctttgaac ttgaagaagc anagctaact gtgatcgtaa 480



agttgccaat tana

494

<210> 7443  
<211> 485  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-079-Q1-E1-C2  
  
<400> 7443

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atcaatgtcn ncagagatga caaagactcn tctcatggtc tacgctcgt gtctatagta 120  
atgttttaca tngnctcgtc caaattttct cccaagaaat tgatccatat tcgctagagg 180  
tgctagaana tgtggcctta ncttcatctt caaagtttaa tatttacgtt gaagctcccg 240  
atgaagctct attcggaaga agctgattca cccgcaatag aatatgacaa ggaccgggtac 300  
aaaatacccg attttattgc ggcttgccgn atgaagcana cctggatatg cttaaagtgtg 360  
gttttcgaan acatgaaaga tgagattang ccanttagaa atgaatgttg tcgtgaaata 420  
ttganaatgg gcanagattg ccatttcaga ttgggtgaag ggctgggccg ccatgttatg 480  
tgtaa 485

<210> 7444  
<211> 439  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-079-Q1-E1-C5  
  
<400> 7444

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ccgccttgca ctgcgccggg actccatggc tcanaagcan caagcctccg ccggtccggg 120  
tacngagcct aagaagcgtc gccgtgtcgg attttctccc gccgatactg gtgtcgaggc 180  
naacgagtgc atcaaaattt atctcgtttc aagcaaagag gaagttgatt cctctgatat 240  
ttccagcgtg aagccagttg acntgaatga tttctttgat ggagatggca agatttatgg 300  
ttaccaaggt ttgaagataa atgtatggat caatagcatc tcattacatt catatgctga 360

tatcacatac cagagcacca ttaacggana caaangcatc acggacctca natctgcttt 420  
acagaacata ttgctgag 439

<210> 7445  
<211> 481  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-079-Q1-E1-A5  
  
<400> 7445

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aagaagacgg ccaagtacac ggacatgaag gcggttggtg tcttggtggt ggctaattggg 120  
atagctgceg tttattcttt gttgcaatca gttcggtgcg tgggtgggtac gatgaaagga 180  
aaggttttgt ttagtaagcc tcttgcttgg gcctttttct ctggtgatca ggcgatggcg 240  
tacttgaatg tggcagccat tgcagcaaca gcagagtctg gtgtgattgc tagggaagga 300  
gaggaagatt tgcaatggat gagagtgtgt actatgtatg gaaagttctg caaccaaattg 360  
gctataggag tctctagcgc cttgttagcc tccattgcta tggttttcgt ctctgcatt 420  
tctgctttta gtctcttccg cttgtacggt gccaccaaag accgcagaac cacgccgtgg 480  
t 481

<210> 7446  
<211> 490  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-078-Q1-E1-F8  
  
<400> 7446

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ccaaaagaaa aacagagaat gatgaagctg caagggggac ttctccagtg gagtcgtagc 120  
agcttaatcc cgtcgattta tacgccaatc aacaaaaccc aattctctat cgccgcctgt 180  
gtcatcgagc ggaaccacca gcttacggcg aaggagagac ggcagctccg gaacgagcgg 240  
cgggagagta aattggggta tagctggcga gaagaagttg aagaaaagtt gattaagaaa 300

ccaaaaaac ggtatgcaac gtggacggag gagctgaatt tggatacttt ggctgagtcg 360  
 ggcccgcaat ggtgggcggg tagggtttcg agacttcgtg gtcattgagac tgctcaaate 420  
 ttaactcgag ctctggctcg tcaattccct gaaatggaat tcacgggtta agcaccatcc 480  
 tgttcaagtg 490

<210> 7447  
 <211> 408  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-G10  
 <400> 7447

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 aaaactggaa cttgtcaagg ttttgagagc aanttttcac ccattctgtg caatcacact 120  
 ctacatcacg tttgaagcca atgacccttc agatggtaac cagactaaac gttaccaagc 180  
 agtggttcga tacttgtcct ttgatatcga agtttgctct tgcaatcctg aancatcttc 240  
 ttcttgaatt ctcttctgaa agttttccac cggcgagann nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnngggg agcataaggg cactagcaag tttcaatttg ttcttgaac ttctctatct 360  
 gaaattaagt tgtantttta tgcccaaagc tnggtctctc ggtgtttt 408

<210> 7448  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-G3  
 <400> 7448

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 gagtggtttg aaagttaagg agtatgagct tcttaggagg aacttcagtg aactgggttg 120  
 ctttggaattt ggtatccaag agcacattga tcttggaaac aagtacgac cttccactgg 180  
 tatctacgga atggactttt acgttgtcct tgaacgcca ggatattcgtg tggctcgccg 240  
 ccgtagatgc aagactcgtg ttggtattca acacagagta accaaggatg atgcaatgaa 300

atggttccag gtcaagtatg aaggagttat cctcaacaag tctcagaaca tcaactggta 360  
 aaaagtgttt tgatctttaa agatTTTTgt tgattccaag cttaatttaa agttgttaac 420  
 ctttgggatg ttaaaagaat ttcttggtgg tagtaaacc ttttgacatc agtttgggaa 480  
 naatcctaaa atcctcca 498

<210> 7449  
 <211> 495  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-G4  
 <400> 7449

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 cggaaactta accttctcnc ngtcnncnna accataacct ttgncnctct taccatancc 120  
 accaacttac ctttcttga agtgaaatat cccaacaaca acccttttgg gatgttacta 180  
 cggccgacac cgatcaagaa ccaatccttg ggtctaccgg ctcatgtcgg gtcagatgag 240  
 tgtcgggttt ggaccaaagc atgttctgat gagattctta ggctgactta tcagccggat 300  
 aacgttgcggt ggcttaaacy cgtaggagg acgatccatg agaaccgga gctagcggtt 360  
 gaggagtatg agactagtag gcttattang tcggagctgg accgtatggg tatcatgtat 420  
 agatatccgt tagcgaaaac ggggtattcg ggcttggatc ggattcgggt gancgccttt 480  
 tggtgcggtt cgggc 495

<210> 7450  
 <211> 515  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-G8  
 <400> 7450

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 aaacagagga accaccactc aacacacacc agcagcacc agaagaagtt gaacatcatg 120  
 agaatggtgc gactaagatg tttaggaaag taaaggctag agctaagaag ttcaagaaca 180

gtctcactaa acatggacaa agcannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntcgatgc accaggcgta acaggtaaac 300  
ctagagaaac taatgttcca gcatcggagg aaattattcc accagggaca aagggtgtttc 360  
ctgtcgtgtc ttccgattac accaaaccca ctgaatctgt accaagtaca agangcccct 420  
tacggacacg atgcaccggc tcattctgta aggacgacgt ttacatcgga caaggaaaga 480  
gaacagagat gttccgattc atcatcctcc tgtcc 515

<210> 7451  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-078-Q1-E1-H1

<400> 7451  
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ctctctctct tctctctctc aaaattttca gagagagaat caaaccaaaa ttttcgacga 120  
cggtaaattg atgtcgtcgg tgatggttga attgccgtcc ggtgtagtat ccggctttcg 180  
tctgacatat attggcttcc acagcagtag atggtcggcc cttgtctagc atcatcggct 240  
ctttcagcgg tgatggctag ctacacggtgt taatccggcg tagttcgggtt ttcttttctc 300  
tttggtttat atcacggtta cgtttcgacc gttgattgtc tttagatcag aattcattgg 360  
gtatgtgtgt tggatgatggc gttggttttc aagtccaagc ttgcttaatt agatctaatt 420  
ccaacctatc ctttgagttt aagggtttacg gataataatt aagcagtttg cgtttttgag 480  
atgaaagatt caaaagctcc ttcctc 506

<210> 7452  
<211> 497  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-078-Q1-E1-H2

<400> 7452  
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taagcaaagc cccttgtttt tgacggacat tatatctcct cctcttctct tctataaatt 120  
 gggcaccttt ttccaatttt acgcacagtc acggagatag atagtaagag agagctatgg 180  
 cggaggagca cttcgacgtt ctgactaaat ccggtgagaa gaccggtgtg tccaaaccca 240  
 ggggagaggt tcacagagat ggagattacc atcgtgctgt tcatgtctgg atttttgtgg 300  
 agactactca acagctactt ctccaacttc gatctgatga taaagattct tggcctggtc 360  
 aatgggacat ctctaagtgc tggccatata tcagctgggtg atacatcgct tctatctgca 420  
 caacgggagc ttgaggaaga acttggcgta aaaccccaaa ggatgcattt gaaaagatct 480  
 ccgtttccgc angaatg 497

<210> 7453  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-H3  
 <400> 7453

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 atcacttaat ttataatttc cttttcccat tttttttcaa aaaaggaact atgattttctg 120  
 tttctgaatt tgttctctgc atagatgaca atgttagtgg tacgtgcatg agaggtaagg 180  
 tcgttatcag tgatcaagca tttgtgtatg ctcaatctgt ttatgtagaa gacggtgaca 240  
 acgatgatga cgatatctat gattatgctc cagcagcatg aatggatcat atgaaacatg 300  
 attttgtacc tttatatatt aatgattttt tgccttaggg tttctttatg ttagttgatt 360  
 taataccttc agtctttcac tataaatcct ttaatatattg cttctataca caagctcttt 420  
 gtttcacgtt atagaaagcg atcgaacgaa aaattcaaag caataacgtt ttaataagcg 480  
 cattgagatn attactaat 499

<210> 7454  
 <211> 489  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-H4

<400> 7454

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ccaccacaag gatatcctcc tcagggatat cctcagcaag gctatccacc tcagggatat 180

cctcaacaag gttatcctca gcaaggatat cctccaccgt acgcgcctca atatcctcca 240

ccaccgcagc atcagcaaca acagagcagt cctggctttc tagaaggatg tcttgetgct 300

ctgtgttggt gctgtctctt ggatgcttgc ttctgattgg agtctctctc tctctgcata 360

aagcttcggg atttatttgt aagagggttt tgggttaaaca aaaaccttaa ttgatttgtg 420

gggcattaaa aatgaatctc tcgatgattc tctttcgttt tatgtgtaat gttcttcggt 480

tcataacat 489

<210> 7455

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-078-Q1-E1-H7

<400> 7455

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gcagacaaaa gttcggagat cgtcaatgct ctgtcgtcgg agatggaagc tgtttccggt 120

tcatcaactc aggcattctc ttcgtccgat ggattccaga tgagtgaaga agttgagaag 180

agatacaaaa ttgttaggag tatcggtgag gaatgtatac aagaggaaga gctaaagaat 240

cttcttgcta agaaggctgc tccgatttgc tacgacggct ttgaaccatc aggaagaatg 300

cacattgctc agggagtgat gaaagtcac aatgtgaaca aaatgacttc agctgggtgc 360

agagtgaaga tttggattgc tgattgggtt tgctcagttg aacaacaaaa tgggtggtga 420

cttgaagaaa atcagagtgg gttggagaat actttcaaga 460

<210> 7456

<211> 457

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-078-Q1-E1-H8

<400> 7456

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ctccgatggc ttctacgctt catggtgctt cgattcttct tagattgtca ggaacttggg 120  
attggtttgt tagtattant gttgatgatt atcctctcgt tactcaagat gagcttcttc 180  
atattatgtc acatttgcct aaggacttga attttgtgaa ccacactagc tacattgggt 240  
ggaaagagtc caggaagttg aagccagtta ttgttgatcc agggctctat cttgtggaga 300  
aaaccgatat gtttttcgct tcgcagaaac gagagttgcc taaggctttc aagttattct 360  
caggtccttc tttctccatc ttaagccgga atttcatgga gcactgtgtc ttaagcactg 420  
acaacttccc tcggactcta ctcatgtact tgtccaa 457

<210> 7457

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-078-Q1-E1-H9

<400> 7457

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caaggagact gtgtggcgac ttaccttgct gaaaagcaga atgtcatgaa gtcttttagaa 120  
gggattcctg gacgcttctg tctaacgctc gacttttggga cctccaagct aactcttggg 180  
tatgtgttta taactgctca ctacattgac agcgattgga aagatacaaa agaagcttct 240  
caatgttttg atggaatcgt atccaagaag ctgacgaagc cttgagtctc gcggttgcaa 300  
attgtgtttc tgaatggggt ctggagggaa agttgtttta cgtcaccttt aaccacccgg 360  
cgaagtaact ctgcggttga aaacatcaga cctcaactct gcacaaagaa ccctgg 416

<210> 7458

<211> 495

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-079-Q1-E1-A11

<400> 7458



cctagcgana cggaaattcc nggctcgacc cacgcgtcag ggttgataaa aaaagaagac 60  
cacatgtttc aagaggagaa gagaaagaca aactatggag caattggctt ggcttgcttc 120  
atctcttggt tctttgcatt ccaattcatg aaaatcgtaa caacacaacc ttcaacaaca 180  
acaacatcat ccattgccgt tatcgatagc ccaatgtcct ccataaagct atctgatagg 240  
agagaaatat ggagagtatt cccaccatct acctattgtc tcaaaatcga atctttcata 300  
aaattcgcca cttctccaaa cgccgagaag tacgaatccc gtccttttga atccggtgga 360  
tacaactgga cacttattgt ctatcctaaa ggaaacatta aggaaggagc tccacttaat 420  
tacgtttcaa tgtacgtcca aatagacaat tcaacactcc ttaactctcc aaaagaagtt 480  
tacgcagaag tcaaa 495

<210> 7459  
<211> 507  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-078-Q1-E1-F7  
<400> 7459

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tatcacaatc ataaccacaa aaacaaacac tatgggacac ctcaaaagtc tcttcacaat 120  
tcttttecta atagctatgt cttcaaccgt aacatttgcc ggtaaaatac ccgcgatcat 180  
cgtgtttggc gactcttccg ttgatgcgg gaacaacaac tatatcccaa ctgttgctag 240  
aagcaacttt gagccatag gacgggactt tgttggtgga aagccgaccg gacggttttg 300  
taacggaaag attgcgacgg attttatgtc cgaagcctta gggcttaaac caatcattcc 360  
ggcgtacttg gatccttctt ataacatttc ggattttgca acaggtgtta cctttgcttc 420  
tgctgccact gggctatgac aacgccactt ctgatgttct ggtacgggac ttttctctcc 480  
cttgatttta ttaaattgat aangtta 507

<210> 7460  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations

<223> Clone ID: LIB24-078-Q1-E1-C7

<400> 7460

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tagtcgacgt ggcgtatgat aaagtcaaag aagaaatagt gaggcttgtg ggatcaagat 120  
taaagaaagg ttacgtgtac ggttcgacag ctgacatgtg ttttgatggt aaccattcga 180  
tggagatcgg acggttgata ggcgatcttg tgtttgagtt tgggagaggt gttgagatac 240  
tcgttgagaa acaaagcctt ttggttaacg taggaggtgg gattcactgt gttggaatcg 300  
gacggccaag catgcttggg gcagctagta atataatcgg gaacgttcat cagcaaaatc 360  
tttgggttga gtttgatgtg accaatagga gagttggttt tagtaaagct gagtgtagat 420  
tattgccgtg agtangtgaa tattcttcta cggtcgtgc 459

<210> 7461

<211> 475

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-078-Q1-E1-C9

<400> 7461

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aaagaagaag ggagaaatag ataagtagca gtanaaacgg caatgagaga ttaagaacag 180  
tgtggacacc tgaatggat cagtatttca tcgagcttat ggtggaacaa gttagaaaag 240  
gcaacagatt tgaagatcat ttgttttagta aacgagcttg gaagttcatg tcttggtcct 300  
tcaactgcaa nttcaagttt ctttatggca aagatgtttt gaaaaacang cataagacat 360  
tgaggaactt gtttaaactc gtgaataatc ttttgataga agatggnttt anttgggatg 420  
atactanaca gatggttggt gccgataact gcgtttggga tgagtatctt aagaa 475

<210> 7462

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-078-Q1-E1-D10

<400> 7462

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tccagcgatc ctagtgttgg attctacgat tttagggttt aaatcttgag atgtgttcgt 120  
tatcaatgca attctcgctc ttgcaatcac caccatctcg tccttgctcg tcttttttag 180  
ccaaccatga acctaaactc tctactactt cctcctctgt gaccttcccc ttgaagacga 240  
acacttgga gtagcgga actgggaatt tgttggtttt gagagttaa gcttatgggt 300  
cttcttctga ttctctgca gattcctcca cgctcccaa tggcactcgg cagcccaaaa 360  
gcagaaggga tattctactg ggagtatggt caagaatgtg aagccaag 408

<210> 7463

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-078-Q1-E1-D12

<400> 7463

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atggggtttgt gttaagtttg tgagtatagt tgaaagtttc agttcaattt caatggagcc 120  
tccaatagga ttctgagctt ctttattcca attcttactc ttcttctctt atttcattgg 180  
attgctatatt ctgggtttca tcaaaggat tgttttgtgc cactcggta tgctcgttg 240  
tgactatagg caactccgcg gtcatactga gtcttctacc agtccacatc gtttggactt 300  
tctattcaat cgtgagtgc aaacaagtag gaccaatctt gaagatcttt ccatgcttat 360  
gtcttctgc tgccatcaat ctcnnggcct aaatgttggg attttaa 407

<210> 7464

<211> 514

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-078-Q1-E1-D3

<400> 7464

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aaaagtcnag caatgtcgtc gtcttggtcc tgcaacaaat gtactttcct caattctgcg 120  
 tctcagaaac tcaattgcat gatctgcttg gctcctgtat ctctcccttc tttgtctcct 180  
 cctccacctt ctctctcaat ttccgcgaac gatgaagcta aatgggcttg caaggcctgt 240  
 acttttttga acacgtacaa gaactcaatc tgtgacgtct gtggaacacg atcgccaacg 300  
 tcttctctct tgggatttca ggatttgact gattcgggtc tcgagagtaa cgacgctgat 360  
 tcctccgtcg ggtctgtttt ctttcctctg cggcggtgta tcaagcgtaa agctatggat 420  
 gatgacgtcg tcgangtcga tgggtgcttct gttgtttgct ctgaaatcgc aaggtgtcat 480  
 gaanaagaac anaggagatt gaaacgaaag gggg 514

<210> 7465  
 <211> 500  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-D4  
 <400> 7465

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 tcttctcnan aaaaanactg aaaaagaaat ggggttcctt aagccaacca tggcgattct 120  
 ttttctaneg atggtcgccg tttcatcagc cgtggncatg tcaatcatct cctacgacga 180  
 gaaacatggc gtctccacca ccggtggccg tagcgaagcc gangttatga gtatctacga 240  
 ggcatggttg gtgaaacacg gcaaggctca gagccagaac tctcttgttg agaaagatcg 300  
 acggttcgag atcttttaaag acaatcttcg tttcgctnat gaacataacg agaagaatct 360  
 tagttataag attgggtttg actcgttttg cggatcttac taacgatgag tataagatnc 420  
 aagtatcctg ggtncataaga tggagaagaa aggtgagaga aaggactaac ctacggtacg 480  
 aaggctcgtg tcngtgatga 500

<210> 7466  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-D7

<400> 7466

gtccacnatt cccgggtcca cccacgcgtc cgcaaaaacc aatcccagat ctgaatctca 60  
acctaâacct cagattcatc atcatggctt cttcttctaa ctacgatgga atccttctcg 120  
gtatgggtaa cccactcctc gatatctctg cgcgcgtcga cgacgaattt ctcaccaaâat 180  
acgacatcaa gttgaacaat ggcattctcg cggaagacaa acatttgccc atgtatgatg 240  
agatgagtag caagttcaat gttgaatata ttgccggagg tgctactcag aactcaatca 300  
aagtggctca gtggatgctt caaattcctg gggcaaccag ttacatggga tccattggaa 360  
aggacaaata tggagaggcc atgaagaagg atgctacagc agctgggtgt aatgttctact 420  
attatgaaga tgagtcggca cctactggaa cttgtggtgt ctgtgttgtt ggtggagaaa 480  
ng 482

<210> 7467

<211> 488

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-078-Q1-E1-D8

<400> 7467

gtacaagtcc gaaaattccc gggtnaccc acgcgtccgt ncattctctc tctctctctc 60  
aacaattaga tctgtttcga taatcacgag gtttccctca cttcctttcc attgctaaac 120  
caggatttgc ctctgcatt tggaaatgga cgcttctatg attaccaatt ccaaâccat 180  
tacttctcca ccctctttag ccttagggaa gtcaggagga ggaggagtta tcagaagttc 240  
actatgtaac ttaatgatgc caagcaaagt taacttccct agacaaagaa ctcaaactct 300  
aaaggtttagc cagaagaaac tcaagagagc tactagtggg ggtcttggtg ttacatgcag 360  
tggtggtgat aagattctcg tagcgaatcg aggtgaaatt gcagttcgtg ttatcagaac 420  
tgctcatgaa atggggattc cttgtgttgc tgtgtattct actatagata aagatgctct 480  
tcatgtta 488

<210> 7468

<211> 395

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-078-Q1-E1-E12

<400> 7468

aaagcgaaga atacgcagaa tccatccaat ttagggtag ggctgccct aatctggaaa 60  
cctttgcctc gtttctgac tggtttccgg atccgacttg angggaaaga agacgacgac 120  
gcactaccaa aaacatgggc gcgaattcgc ttccaacgga tgcaaccctc gatctagatg 180  
agcagatctc gcanctcatg cngtgcaagc ctctctcnga ncaacacgtc agancattat 240  
gtnaaganag ctaaggagat cttaacggac gaaaccngcg ttcaagcctg tnaagtagcc 300  
ctgtgacaat ctgcggtgat attcatggac agttccatga tcttgcanag cttttccgta 360  
tcgggggaaa gtgtcctgat ancagctatc tgttt 395

<210> 7469

<211> 514

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-078-Q1-E1-E2

<400> 7469

aactgttcgc cttgccgtag ccgtccgaaa ttccagggtc gaccacgcg tccgtcacc 60  
agccgccatt caacgccggc gctaacggta acagtcagtt tctcctcca tctaccggtg 120  
cgccgattcc tccgccatat cctcaggcta atcaggaatg gggcaatcca aattgggggt 180  
atcaacaaca acaaggtcac accctcaag ctaatagcaa cgtcgaggac tgggctgtga 240  
aagccaaaga atgggcagct gcgaacaagg atcagcaatc acagcagtct gcaccgaacc 300  
aacctagcgg acaagtctac cagcagcagt atcctactca tggctatcaa gattttcatc 360  
aacaggcagt tccaaggagt aagctatcag cagcatcagc agtttccaag ttccaccac 420  
aacacagccc gagagatatc caaattacgc aacaaggaaa cgaagagctt tcctggagtt 480  
ggattgcccc aagaaaacct gcctaccaat tctg 514

<210> 7470

<211> 493

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-078-Q1-E1-E3

<400> 7470

gtagccgtcc gaaaattcaa ggggtccaccc acgcgtccgg ttttgtctcg ttcgtgcaga 60  
gtattcagcc tcactttgat gctgtgagct ttaacaatgt tcaaggagac tgtgtggcga 120  
cttaccttgc tgaaaagcag aatgtcatga agtctttaga agggattcct ggacgcttct 180  
gtctaacgct cgacttttgg acctccaagc taactcttgg gtatgtgttt ataactgctc 240  
actacattga cagcgattgg aagatacaaa agaagcttct caatgttttg atggaatcgt 300  
atccagaagc tgacgaagcc ttgagtctcg cggttgcaaa ttgtgtttct gaatggggtc 360  
tggagggaaa gttgtttaac gtcaccttta accacccggc gaagtaactc tgcggttgaa 420  
aacatcagac ctcaactctg catcaagaac cctgggattc tggatgggtc agttggtaat 480  
aaggaantgt gtt 493

<210> 7471  
<211> 510  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-078-Q1-E1-F3

<400> 7471

aactgtntcc ctgctcgtag ccgtccgana ttccaaggn ccacccacgc gtccgaaacg 60  
tattcttaan agcaaccatt ggtgtgattg actctataag agaattcgtc agcgtgangc 120  
antctccaat ctaatcgcag catatcttct ccgattccta ttcgtctctg caattgaatc 180  
ttccggtagg cgaagatggc gacgtctgcg aggatttggt gcggaggagg aagtgcattc 240  
gccgttcgtt gtgatcgtcg cacgttaaata ttgaattctc gatcgtcatg tgttgttcca 300  
gtgacgaatc gacggnatat gtgtgcgacg gggaagattt cgatgtcgat ggaggatttg 360  
tcaccaccgt ctgcggcggg gaagattgaa aggatcgggt gaaggaaacg cgggtggatct 420  
gttgtgtcga gggagaagct agatgtgtgg ntgagagatt cgggtgggtg agatcgtgaa 480  
gaatccttan agagtccccg gttattgatg 510

<210> 7472  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-F4

<400> 7472

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gtgccttcgg aattcaaggn tcanccaanc cttcggcttt ncaaaantnc nttttttnaa 60
ccanttcnna accacttttn atngatcnac acccgctggg gtntctcgtt tcgtgcttag 120
atcagagagc tccctcccggt gattccgagc ttttaaggctg gaaatggcgg ctcagtgttc 180
tactggaaac attcataatt tctatcttgc ggggcagggtt tacaggggac aagctttttc 240
atggagttct gcttctactt tcatggcaaa tccattcaaa gagccctctt ggtcaagtgg 300
ggtattttaag gctctaaaag ctgagagatg tgggtgttac tctcgtggta tttcccccat 360
caagtgaagc ctcaaaacct atcagggctg tttcgggtatc cttcttcaac aaaagtatta 420
tgatttcact gtgattggta atggaantan cgggtctgcg ttatgcctta gaaattgcaa 480
agcaagggaa cagt 494
```

<210> 7473  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-078-Q1-E1-C5

<400> 7473

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ccgnacgtac aagtccagaa tcccgggncc acccagcgt ccgaaaagat tagagactac 60
agagacagag aagatgggca tggcaatgaa gtcagtttct aacttcgcaa tctttttaat 120
cctctttttg gtcacctctg aaatatctga gatagaagcg aaagataagg aatgtctaaa 180
aggatacatt gatgcgcctt taagctattg tatggctagg atttatccgt cgttgtgtta 240
tcgaaattgt cgtttttaca agggcgcgaa aggtggaaaa tgcgacggtc ttaagtgtt 300
ctgcgacttc tgcagcgaca agccttttta gtcagtttct gatgagaaat gtttgaatct 360
tggcatgtat aatggtttgt gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnacg ctagactttg attgtgttat cactaaaata aatgaagata 480
```



agtgggactt cggt

494

<210> 7474  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-077-Q1-E1-A4  
  
<400> 7474

gagatcttgg tgtcctgtct tggagatgaa gaggggaatg ctaaggggaa tgggtttctt 60  
cttcttgact ctgattttaa catcaagaat aggtgggaga aaccaggaca tagtcctttg 120  
tatgggtatg atttttggta ccaacctcgg cacaagacca tgatcagcac atcttgggga 180  
gcacctaaag ctttctctaa aggtttcaat cttcagcacg ttgctgatgg cttgtatgga 240  
agtcactctac atgtttatag ttggccagga ggtgaaataa aacaattaat tgaccttgga 300  
ccgactgggc tcttaccttt ggagattaga ttcttgcagc atccatctaa agatacaagg 360  
tttggttgga atgcttgtcc aagttatatg atnagaattt tcaaggaaca nttatta 417

<210> 7475  
<211> 464  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-077-Q1-E1-A8  
  
<400> 7475

ccttaccggg cantaccggt cangnattec cgggtcgacn cacgcgtccg gtcagtagca 60  
gtctccgccc ggaatatttt ttttccggta gctatgctcc gaaccgtctc ttgtttagct 120  
tcgcgcagct cgctctctct attctttcgc ttctttcgtc agttccctcg ctcttacatg 180  
tctctcacat cgtcgacggc agctctccgt gtccccagtc gcaatcttcg ccgaatttcc 240  
tctccctcag tcgccggtag acgtcttttg ctccgacgag gtttgaggat tccctccgcc 300  
gcaagtctgc agtgtcaatg ggcagttctc tcgcctctct gttcgcgcgc tcgccacaca 360  
acccgtcca ctttatcctg atgtaggtca agatgangct ganaagcttg gatttgaaaa 420  
agtgtccgaa gaattcatnc tcaaagtgtg aatcnaaagg ggaa 464

<210> 7476  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-A9

<400> 7476

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gtaccganac caaaaattcg ccggtccacc cacgcgtccg tctttgtcgt ggttttctgc 60
tgtcttcttc tccgtcgaac ttctccgacc acttcgtata gagagagaga gtgacgaaga 120
gtttacggaa tcgaatccaa taatgagtag tgcgtcggct ttagttcaa tccaaggatg 180
ctggttcaag ggcgaaagga aaattcgtgt agcggataag cgagccaaga ggcttacttt 240
gggatcccat gtggcttcgc catcttcaat gagcttcaga gtttcagcta gtaagttctg 300
ttaaacctga aaaggatatt aggattgggc ttcttggtgc aagtggctac actgggtgctg 360
agatcgttag gcttcttgca aatcatccgc atttccaggt cactttgatg actgctgata 420
gaaaagctgg ccagtcaatg ggaaagcgtt ttcncacacc tg 462
```

<210> 7477  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-B1

<400> 7477

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cgttacgccg cctntaccgn ccagtantng tngaagcgac ccacngnncn ggagcgagtg 60
aagattagcc acaatgtatc ttctctcct ctatcttctg tttctggctt cttgcttgac 120
acatcaagct ttaggccgtg gtcgtggccg gccatcaccc gaaggaagct tggatccttc 180
ttctcgcatc accgtagtgc gngttgtcta ctgtgacacn tgttctaaca acactttctc 240
aagacanagc tattttcttac aaggtgtgga agttcatgtg acatgtagat tcanagcaag 300
ttcaccaaaa acagcagagg aagtgaacat atcagtaaac agaacaacac acagaagtgg 360
cgtgtacaag ctcgagatnc ctcacgtaga tggcatcgat tngtgcgaag gaatcnccat 420
atcatcacia tgcantggcc caagatnacg naacctcctc tnaaagaaaa aagg 474
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<210> 7478  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-B11  
  
 <400> 7478

gtaccgaaac canaaattcn cgggtcnacc cacgcgnnnn nnnnnnnnnn nnnnnnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngatc aaacttgtgc 120  
 tttgtcttcg taagaacctt cacttcgaaa acgtagccag aaaagtagtt ctaatcacccg 180  
 gagcttcttc tggcatcgga gagcatgtgg catacgaata cgcaaagaaa ggagcatatt 240  
 tggctcttgt tgctcgaaga agggatcgtc tagagattgt agcagaaaca tcacgtcaat 300  
 taggatctgg taatgtcatc atcatacctg gtgatgtttc taatgttgag gactgcaaga 360  
 agttcatcga tgagacgatt cgtcatttcg gaaaactaag accacctgat caataatgct 420  
 ggtgtatttc aaactgttct tttcgaagat ttcacacaaa ttcaaga 467

<210> 7479  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-B12  
  
 <400> 7479

ggtcnaccca cgcgtccgcc cacgcgtccg aaaagagatg gtgcgtctct atgtatggca 60  
 gtggcaggca aacaacaggc gttttccctc aggatgtgtg gcaactgtgag atatgtaacc 120  
 gaaagcctgg acgtggtttt gaggaaccg ccgaagtcct tccgcggctg tttaagatta 180  
 agtatgagag tgggacgtta gaagaactgt tatatgtaga tatgccaaagg gagtcccaga 240  
 attcatctgg ccaaattgtc ctggagtatg caaaagcaac acaagagagt gtctttgagc 300  
 atcttcgggt tgttcgtgat ggccaacttc gaatagtctt ctgccagat ctttaagatat 360  
 tctcctggga attttgtgct cggcggcatg aagagcttat tccacgaaga cttttgatac 420  
 cgcaggttag tcagcttgga tcggc 445

<210> 7480  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-B4

<400> 7480

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 aagcagcgtt tgggaaggtt tggaaactag agcaaatgg tggaagcata ataggtggta 180  
 cttttaaggc aattcaggag aggaaaaacg ctccaaggc agaacgagac ccgcgcctgc 240  
 caaaaccaca gggccaaaca gttggttctt tcaggaaggg acttcgaatg ttgccagaag 300  
 caatatctgc aagattaggt agcaaagtta agttgtcttg gaagctctca ggtatcacta 360  
 agctggagag cggaggatac aacttaacat atgagactcc agatgggtta ntttccgtnc 420  
 agaacaaaag tgttgtaatg accgtgccat ctcaagnttc caattgggcc cct 473

<210> 7481  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-B9

<400> 7481

acgcgtccgt gtttttctca ctactcgcc gtttctctt ctcttcttct ggttcacttc 60  
 tctcctaagt aataacacca ctgcatgttt ctctcttgag acactccaaa ccatttctct 120  
 ccgaaaatgt ctgctccttc tggcgggtggc gaaggaggag gaaaagaatc agctgctggg 180  
 ggagtgagtt catcgtctct tgctccgtcg tctctaccac cgctcgtcc naagtctcca 240  
 ncagagtatc cagatttgta cgggaaacgc agagaggcgg cgagagttca gatgctcgag 300  
 agagagattg gttttctcga gggcgaaatt aaattcatcg aaggcgtaca accggcatct 360  
 agatgcatca nagaagtctc tgattttgtt gttgcaaatt ctgaccatt gatccctgca 420  
 caacgaanaa gtcgaa 436

<210> 7482  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-C10  
  
 <400> 7482

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acgcgtccgg aaaaaaacat agcgaaggag taaaaaacga aggccggaat tatcagaacg 60
ggacagtgac aagggtttcc ctgagctgac ggaccctttc aattattcat cctcgaaagt 120
tccacacttt cggcaacttg aagtagcagc acgatttaca ttaagtccag agaggatggg 180
agcagtagag cttatgagtg atccatcgag cttatgcaca gtcgagaact atgtggacaa 240
cgttgattta tctgatacgc aattggtgca gaccgtgaga aaggctctta catctgtcaa 300
aactggggac tcagaccttt atagtgagat ggttggagtt atggcacggg acatcaaaga 360
atttaaggat cctgatgtag tggcgcagct tgagacagtc ttgaaagctc tatcangcgc 420
tgtggcttgc ataaat 436
  
```

<210> 7483  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-C3  
  
 <400> 7483

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anagtttnag agcgagaaan aatggcaacc atgtctgctc ttcagagctc ttttacttct 60
ctttctcnat ctcccagctc ttccttctc ggccagcgtt taatttcccc gatttccctc 120
tcgctcactt ctccggtcaa gcccgtgag aacctatgct ttgttcntgc aaagctcaag 180
cgttgggaan gaaaagaatg canaccanac agtcttcnga ntctccacaa aatgcatgct 240
aagtttggag atacagtcaa agtantatct ggacncgaca agggtaaaat cggagagggt 300
actaagattt tcacncacaa cagtaccatt gtgatcaaag atgtgaacct canaacaan 360
cacatgaaga gccganaaga nggagagcct ggtcaaattg gtcaatattt gaagccctat 420
tcccangtca aatttgg 437
  
```

<210> 7484  
 <211> 452  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-C7

<400> 7484

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tcccggtcg acncacgcgt ccngccacac tttgcagtcc cttcgcggtta ttaagtacct 60
ctacaagtac aatgtgttcc agatcgggtt tgttgtcttc gctggattga cctttttata 120
ttacattgcc tttggatgga gaagaaaaaa gccgagcggc agattccagc tctctacctt 180
atgtaaatct cttcttttga ttttatcggt tatgtttcct cgtctctggg atcgatcgcg 240
tgccactgag gattgctgtg tccacaatta taccgagatt ggtctcatga tctgtgcaag 300
tggtcttata tcataagaac aagcacctgc ccaaaaagct tctctttctt ctgcttctct 360
ttgctgctga gggttgtttt catttcactt gaatgtaaaa ttaatcctct ttttctcgta 420
acttttcccc tgtatccant gcttaaattt tg 452
```

<210> 7485  
 <211> 461  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-C8

<400> 7485

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agtaccggtc angaattccc gggtcgacnc acgcgtccnc gccgtctccc ggagtttaaa 60
ttctggtact ccatgactaa ggcattctgc atagcctttc ttatgacatt cttctcggtg 120
tttgatgttc ccgtcttctg gcccatactg ctttgtact gggtcgttct ctttgtcttc 180
accatgagac gccaaatagc ccacatgatc aagcacaagt acattccttt cagcatcgga 240
aaacagaaat atagcggccg gaaatcttct gcgaacagcg gcggcgggctc tegtgtgat 300
tgatttcaac ttgcagccac attttctgca gaaaaagaat gaaaaaaagt tgggttttca 360
cgttggaacg ttttgtagtg atgaattact agtattgtta tgcttctaca atgaagaaga 420
angaaacaga aaagggtcat taatttttaa gttgcaagaa n 461
```

<210> 7486  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-C9

<400> 7486

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ttcagccggt cgtaccgaac canaaattcn cgggtcnacc cacgcgtccg cacacgcgtc 60
cggaagaaca caacagtcag atactttttc ttcttatttt gtccgtaccg aaatcggaaa 120
atggacatta ctgttcgaat ctccggctta aaatcctcca atctaaccg gataaccctt 180
agattctcat ctctctctag attccgttgc tccaacaacg aacctctctg aaagggaaac 240
gagtccaacg gtggtggtgg tgataaagcg tcgacggact gggacaaggc gtggaagaat 300
ttcaagaagc agagcaagaa gtcattgttc tcgcaattca acgtggacaa gtacgtgact 360
tggaatcctc ccagatcgga gtttgatttg tcggaagaag tcgatcctat aaaaagaaca 420
gagagatcca atctcatgct ctggacaagt ccaaggttca cacttggttg agccatc 477
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<210> 7487  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-077-Q1-E1-A3

<400> 7487

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aacgttagcc gcccttacct gccaatattc gcnaancgan ccacgcntcn gtgttatgct 60
gagtttgag ttgagattcc tgcgctgga ggttctttct cttatcttag ggttgaattg 120
ggggatttta ttgcctttat tgctgctggg aatattcttc ttgaggctat ggttggtgct 180
gctggattag ggaggtcatg gtcttcgtat ctagctagtt tggtaagaa tgattctgat 240
tattttcgga ttaaagtcga ttcctttgct aaagggtttg atcttttgga tccggttgct 300
gttgacgtgc ttttagttgc taatggtatt gccatgactg ggaacaaaga ggacttcttg 360
gttgaatttg attacttcca tggtcactgt ttgtattaan tgtgtttaan cgtcnttgct 420
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491

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<223> unsure at all n locations  
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agtgaattca cataacaaag attgtgtcaa ttactgaact ttttgcagag tcaagttagg 180  
gaattgcata aggctgggtca ttctgggtcat actactacta tgatgcttct tgggattcct 240  
aatgtaggaa agtccgctct ttcaaattct cttcatcata tcggaaggat tagtgctgca 300  
gagaaaggta agctaaagca tacaacagtt agtccaagc ctggagatac taaagacatt 360  
atgnagcttg aagatnggta ncatcccaat gtcaagtact ggaaacgcct ggaantt 417

<210> 7489  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7489

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gcttcaaact tttatataaa gtctcttcct ttttctttct ttctcggtgg aatttgcagc 180  
aatggaagat aaaccattag ggattctcag ggttcatgtc aaaagaggga ttaatcttgc 240  
tattcgtgat gccaccacca gtgaccta tggtgttatc acattggcta atcagaaact 300  
gaagacgcgt gtgattaata ataactgtaa tccagtgtgg aacgaacaac tgacccttct 360  
catcaaagat gtgaatgatc ctatccgtct gacggtgttt gataaagata gattctcggg 420  
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gg

482

<210> 7490  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7490

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnac cgacgatctt ccacgccgtc 180  
ggatacatcc cagctttgac ccgcttcaca acgatccgga cccggatgga taggtctggc 240  
ggctcatatt cgccgcttaa atccggatca aacttcagcg atcgaccacc cactgaaatg 300  
gcacctctat ttctgggttg cgattacgag cattggctta tcgtcatgga gaagcccgga 360  
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tgttggcaat gangaaaaag g 441

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<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7491

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gaattgcgca atcacagagg atgatttgat cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa agcagatcct atctctctta ccttcaatcc 300  
aaactctgac ttctgcaagt ttattgtctc caagtgtcgt ctcttcatg gacgatactt 360  
tcctacgttc tggctttcaa gccctcatct tcaaacaagc tttccttaac ctttttggaa 420

agtctctctcc tttctc

436

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<211> 438  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7492

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aacaacatcg atagggttatt gacagaactg atgcaagaaa gaaaagagtc tggagaaact 180  
ttcacagaca tgttgggtta cttgatgaag aaggaagata accgatactt gttaaccgat 240  
aaagagataa gagatcaagt ggtaacgac ttgtattccg gttatgagac tgtctctaca 300  
acctccatga tggctcttaa gtatctccat gatcatccaa aagctcttga agaactcaga 360  
agagaacatt tggctataag ggagagaaaa cgacctgacg aaccgctcac tctcgacgat 420  
attaaatcga tgaaattc 438

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<211> 399  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7493

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atcgtggaac gatccanaca tgcttgaagt gggaaatgga ggcattgacta aggaagaata 180  
catgtcgcat ttcagcatct gggcattggc aaaagctcct ctgctgatcg gctgcgatct 240  
tagatcgatg gacaaagtta catttgaatt gcttagcaac aaagaggtga ttgctgttaa 300  
tcaagacaaa cttgggatcc agggaaagaa agtaaagaaa gaaggtgac ttgaggtatg 360  
ggcaggtcca ctaagcaaga aacgagtagc ggatcatcct 399

<210> 7494  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-076-Q1-E1-G4  
  
 <400> 7494

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tctccgttta tgaccagaag aacttcacta actacggcaa tgctcgtgcc ggaggagcag  180
attcgttcaa aaactactcg aaagacggta atgtcgtaac cgattcgttc cggagataca  240
gccgtaacgc ggcgggtcac gacgataaat tctactgtcta cggtgaaaac agtaacgtgg  300
tagaggaagg attcaattca tacggaacat tcggaaccgg cggcgccgga gatttcacta  360
actacaaaaa caacgtgaac aatccaacga gtcgattcac ggggtattcc gacggaggt   419
  
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<210> 7495  
 <211> 424  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 7495

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acacgctcct ttgcttcttc tgtgtcactc tctccacaga gacacataat ctctctcgtt  180
tctatctcta atcgtggaag gtgcttcgca ttctcgagcg tctctggtgc ttcgctttat  240
aataatcaag aggatgggaa gaaagaagaa tccgagagaa attacgcttc gacgaaggaa  300
ggagatgaag tggttttacca gaaaacgctg agattagtag aatgtgccat gttcgtctgt  360
gtgacaggcc tcgtttactt tctcagcaat tctctcgcca ttgagaacta cnttggtgtg  420
ttcc                                                                 424
  
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<210> 7496

<211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 7496

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 gagaaagatt gtgatgtgtg gtgttttatt tcttcttggg ttattatcag ctgttactgc 180  
 cttcgtcgct gaagctactc gaatcaanag atctcaggtc acggttaccg tttcggattc 240  
 aatcacaaaa tgcacttata cancaagtcc agctttcaat ctcgggttca cttcagctcn 300  
 ctttctnatg atggctcaga taataactcan tgtcncaagc ggttggttct gttgtacaaa 360  
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 nttca 425

<210> 7497  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-076-Q1-E1-H10  
  
 <400> 7497

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 tgcattcagc cagactagtc ctttgtttgg acagaatacc actcctgcat taggacagtc 180  
 tagttctgtg tttggacaga ataccaatcc tgcatttgta cagagcaaca ctttcagtac 240  
 accttccact ggctttggga acacgttttc aagctcttca tccttaacta caagcatctc 300  
 cccctttggg caaataacgc ctgctgttac gccctttcaa tcagctcagc caactcaacc 360  
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<210> 7498  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-076-Q1-E1-H11

<400> 7498

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cgtggaacga tccagacatg cttgaagtgg gaaatggagg catgactaag gaagaatata 180  
tgtcgcatth cagcatctgg gcattggcaa aagctcctct gctgatcggc tgcgatctta 240  
gatcgatgga caaagttaca tttgaattgc ttagcaacaa agaggtgatt gctgttaatc 300  
aagacaaact tgggatccag ggaaagaaag taaagaaaga aggtgatctt gaggtatggg 360  
caggtccact aagcaagaaa cgagtaccgg tcatccta 398

<210> 7499

<211> 438

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-076-Q1-E1-H6

<400> 7499

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aaaataccac tcctgcattc agccagacta gtcctttggt tggacagaat accactcctg 180  
cattangaca gtctagttct gtgtttggan agaataccaa tcctgcactt gtacanagca 240  
acactttcag tacaccttcc actggctttg ggaacacggt ttcaagctct tcatccttaa 300  
ctacaagcat ctcccccttt ggtcaaataa cgctgctgt tacgcccttt caatcagctc 360  
agccaactca agcattangt gcttttgggt tcaanaacat tgggtcaaac ccaaataagg 420  
gcaatgggaa cttttacc 438

<210> 7500

<211> 419

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-076-Q1-E1-H9

<400> 7500

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agcttcaacg tctccgatct tactgctgct cttaaggacg aggatcgagc tggccttgtc 120  
aatgctctaa agaacaagct gcagaatctg gctggtcagc gttctgatgt gctcgagaat 180  
ctgactccca atgtgagaaa gcgcgttgat gccttgaggg atatacagag ccaacatgat 240  
gaactagagg caaaattccg tgaggagaga gctattcttg aagccaagta tcaaacgctg 300  
tatcagcctt tgtatgtcaa gcgttatgag attgtgaatg gcactactga agttgaactg 360  
gctccaagag gatgatacca aggtggacca aggagaagag aaaactgcag aagagaaaa 419

<210> 7501

<211> 482

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-077-Q1-E1-A10

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ggttctgtcg ggccaatgta ccgatccatg tgagagttca agatttgctc ggaaggctca 180  
cgttgccagga gaagatccgc aacctcgtca acaatgctgc cgccgtacca cgtctcggtc 240  
ttggaggcta tgagcgggtg tccgaggctc tccacggcat ttccgacgtt ggtccaggcg 300  
ctaagttcgg tgggtgctttt cccggtgcca ccagcttccc tcaggtcatc accaccgcag 360  
cttctttcaa ccagtctcta tgggaagaga tcggacgggt ggtgtctgat gaggcaagag 420  
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ga 482

<210> 7502

<211> 417

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-076-Q1-E1-E9

<400> 7502

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 cctttatctg gcaatatgat gcacattgct attgtgggca tcaacaacca gatgagtctg 180  
 cttcaggaca gtggggatga agaccaagct caggaaagag taaacaagtt ggccaaaatt 240  
 cttaaagagg aagaagtgag ttcaagcctc tgttctgccg gtgttggtgt aatcagctgt 300  
 ataattcagc gagatgaagg acgaacaccc atgagacatt cttccattg gtcgttgagg 360  
 aaacagtatt atgtagaaga gccgttgctg cgtcatcttg aacctctcc gtccatt 417

<210> 7503  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-076-Q1-E1-A6  
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 ttgggaacgt agccgaactc ttagagaaag agaaactttc catcaactac gccaaactgca 180  
 gaagctggca ccttggtggt gagacctcta acatcataga cttcgacacg gtgcccgcga 240  
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 aaaccgtgtg caaagaggct tatttctatg ccaaaggact tgccctaaag aacgacaccg 360  
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 aatatggata cggaac 436

<210> 7504  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 <223> Clone ID: LIB24-076-Q1-E1-A7  
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tcctagctgg gagctttcag gcttcgtcga atacatanag tccggtcaaa aacaaggaga 240  
catgcttctc gtantcccgg ccggaagtt cgcaatccgg ctaggcaacg angcatcgat 300  
caaacaaaga cttaacgtta caaanggaat gtantacnca ctgacgttca gtgncgcang 360  
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taaac 425

<210> 7505  
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<213> Arabidopsis thaliana  
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attggagtgc gggttgatca aaaacagttg agcgaagatg aggattatga ttaagggagg 180  
tgtttggaag aacaccgaan atgagattct caaagccgcc gtgatgaagt atggtaagaa 240  
ccaatgggct cggatctcgt ctcttctcgt tcgtaagtct gctaaanant gtaaagctcg 300  
ctggtacgag tggctcgatc catctatcaa aaagactgaa tggaccagan aagaagatga 360  
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gggtcct 427

<210> 7506  
<211> 390  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-076-Q1-E1-B5  
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gaaagaaaac gacgtttgtg ttaaaatgat cgccgctccg atcaaccctt ccgatatcaa 300  
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<211> 415  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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tgcangacgc caagatttac aaatgtgagg atganaaatg ccctanacca atgtgctaca 300  
aggcctacgg aagtggaaag gaagacactc ccaattgtga tgtccccgga ttgaaaact 360  
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<210> 7508  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-076-Q1-E1-C12  
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accaagtcaa cgccgtctct gaaggtgtta tgactgatga gcttagaagt tttctggagt 180  
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ctaaactcgg ttcacatata tttgaagcta ctaaaatccc atgccagagc aatgagtttg 300  
 ttcttgagct tctcagaggt gttcgccagc attttgatag gtttatcaag gacttaaagc 360  
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<210> 7509  
 <211> 438  
 <212> DNA  
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 <223> unsure at all n locations  
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 accgagaaac ttcaaatact attcttttac cgataaaatc tgtttggcag cggagagaat 180  
 ccgagcagtc gatatccaga agcaggacgg tggtttgcaa gagctcgatg actcgccggg 240  
 gtctgttgag ctcggaacct tctgtggtga gagccacttc gatcaagtga tggaggatgc 300  
 tcagaagctc ggtgaatcag ttgttattgt ctggatggct gcttggtgca ngaaatgtat 360  
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<210> 7510  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 acnatctctg ttgagaagcc natttttgaa gaggtttctg cattcgagaa gagtggggac 180  
 aatatcgag agttgaaatt ggacggagga ttttcgatgc cgaaaatgga caccaatgac 240  
 gacgaagctt ttttggctcc tgagatgaat gcatttggcc gccaatcag ggactacgat 300

gttgagagtg agaggcaaaa gggcgctnaa agagttttac agattacaac acatcaacca 360  
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tgagcantt 429

<210> 7511  
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<212> DNA  
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acagagtcac ggaagagact tttgtgccgt ttgaaggaat caagaatgat cttaaaggaa 180  
gattgatgtg ctataagcaa gattggactg gtggattcaa agctggattt aggattctgg 240  
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tcgaaagaag caccgatgga gttctcacgg ctgttcaaac cttagcatct acagccattt 360  
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<210> 7512  
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<213> Arabidopsis thaliana  
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<400> 7512

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aantgatata aanctggcaa ctttgtttca attgggaaca agggtttgac tttcaggtcc 120  
acacggttcg cactcggata ctaacagaca tggcttgggt caccatgaag gcatacctga 180  
acgtggatgg tggccattc ctaataacca atgtgttcga gttccacaat ggaaggtggc 240  
acatggttca tcatcacagc tcagtgatgc tcatcgatga tcaacaagtt gttgttcatt 300  
gatgaatgat gataatatct tttagttttg gtttccttct cttcttttat tttcatgggg 360

acaacaaata aagaagaaga aagaaactgc atattggaga aattggctta ttanattttt 420  
aagtggttat tattaagtt ttaactacat gtactgaatg ttctantttt tttttttt 478

<210> 7513  
<211> 398  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-076-Q1-E1-D5  
<400> 7513

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn actaactctg 120  
atatcatatt atcaattttt ccttttcaac acccaaaatc acaatctttc agctttattc 180  
tgtttttcct tgcttgagaa ttgtgttcga ttcattgtcta cgaactgaaa tcacaaattt 240  
tgccaacggt ttatgattcc tgggttcgta tttttttttt tgtaatcaat agtttagctca 300  
tttcgaataa tcaaactcaa ttttattgtt catgatttgt tatctgggat aaaagagagt 360  
aatgtgctaa ttatgtatac tcaggtattg cttggtgt 398

<210> 7514  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-076-Q1-E1-E12  
<400> 7514

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gcaacatttc atggatttgc aaagcgattc tgggtttggg gacgatagct cctggctcgc 120  
cggcgatgac gatcttcgtc tcttctctca ccaatctgcc gccggtacga actccggcaa 180  
tgagaatcta gatcgtcgtc tcttaaaaga tctcgtcgag atgggtcccc ttatcgagca 240  
ttacatggaa cataaagaaa ggagttcgtt taagcggcgt ggttccatga tctacactaa 300  
gatgccttca aaagaatcct tgtcccgaag gggaagaaat gcttctcaaa cagtcccagg 360  
aagaaagaag agagaccaag agggaaatga cgatgttatg aacaattcta gggaa 415

<210> 7515  
 <211> 480  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-076-Q1-E1-E3  
  
 <400> 7515

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 gcagcagcag cctcaggtat ttttgggatc cggattcaag atcctagacc tggaaccggt 120  
 aggggtccaag cccggttcgg gttcagtttc ggaaaaaaga aaccggctcc accgccaaag 180  
 aatcaaggc aggtccaaga cgatggagac agactagttt gggtccccgg cgcaaaccgg 240  
 ccggaatggt tggacggatc gatgatcgga gaccgtggat ttgatccggt tgggttaggt 300  
 aaaccggctg agtatcttca gtacgatttc gatggacttg accaaaacct tgccaagaac 360  
 gtggcgggtg acatcatcgg gatcatccaa gaatcttcgg agatcaaacc gacgccgttt 420  
 cagccgtaca ctgaagtctt tgggattcaa acggttcaaa aaatgtgagc tgattcaatg 480

<210> 7516  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-076-Q1-E1-E6  
  
 <400> 7516

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 aggagattga agaagctgaa cgagtaaaaa agagcaaagt gggtatgaca tttgatttaa 120  
 tcggccgtaa ggttctgtta aatgaagatg atatctcaga actagaatca gggaacagga 180  
 ttctgggacc acctgagact aaaaacgtga acagaataaa accgaaccgg actgcaagac 240  
 tcgttccaat cttcttagac ccaggaccaa ccgagaagaa gccaaacagc accaccacca 300  
 agaaagacaa caagaaaaac cgaaacggtt tgtgtctana gatnncagga agggtgcaac 360  
 atgacagaag tgaactcaaa tacttancaa gccgattcaa aatccggacg gtaatcttgg 420  
 cc 422

<210> 7517  
 <211> 429  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-076-Q1-E1-A4

<400> 7517

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 tctgtcttta tgcattcttat gctcncgggc natggtacgc atcatggcnt gtgaaacacg 120  
 gcatctctga cttctccaaa accataanag tcttcatggt tctgatggtc tcagccaatg 180  
 gtgcagcaga gacactcaen ctggctcctg atttcancaa acgtgggtcaa gctatgcggg 240  
 ctgttttcga acttcttgan cggaaaaccg agattgaacc tgatgatcct gataccaccc 300  
 cgggtcccaga ccggttacgt ggtgaagtcg agctcaaaca tatcgatttc tcttaacctt 360  
 caaggccaga catccanatt ttccgtgacc ntagccttcg tgccatagaac tgggaaaaac 420  
 cctaagctc 429

<210> 7518  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-F7

<400> 7518

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 gtatctcatt cttctcttca tcgtcgtcgt cggcgtcaac gctcagaatc ggagacctaa 120  
 gaatgttcag gtggctgtta aggctaagtg gcaggggtact cctcttctcc ttgaggctgg 180  
 tgagttgatt tccaaagaat cgaagcagtt gttctgggag tttactgatg cttggcttgg 240  
 ttccgatgga gatgattccg attgtaaatc agctagagat tgtcttctta agatatctaa 300  
 acaggcttcg actctgttag ctcaaccaag tggcttctct cttccatttc tcacttactc 360  
 tgagatctgc ttgcctang cttgtgcttt accgtcaatt ggctgatgag tctctatcct 420  
 ccttccctca tggatgatgat tccctcctgc gactgggctg ctgttggggg tga 473

<210> 7519  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-F8

<400> 7519

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnagatgctg gttccatcgg 120  
agtaaactac ggccgaatct ccgacgaact ccctccgca ttcaaagtag tccaantact 180  
aaaatcccaa ggaatcacgc gagtcaaaat cttcgacgca gacctatcag ttctcaaagc 240  
attatccgga tctggaatca aagtcaccgt agatctcccc aacgagttac tcttctccgc 300  
cgccaaaaga acttccttcg ccgtctcatg ggtcaaacnc aacgtagcag cttancatcc 360  
ttcaacacag atcgaatcan tanctgttgg taacgaaggt cttcgttgan acacacaaca 420  
ctacaagcnt cttgatecct gcaantgaga aacat 455

<210> 7520  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-F9

<400> 7520

gggttggtc attcgattan tatagganga aaccatggag ctaaggaaat ctcaagtggc 60  
catgcctgtt ttcttgcaa taatgagtct aatggtgagt caagtggctc tcgcnagaa 120  
agattcaggt tcaatgtccc ctcatgatcg ggcattagca naantgcaag cccttaaagc 180  
ttcattggtt cggcgaaatc taccggcntt ggtanctcct cctectancc ctctcaggc 240  
cgtacccggt ccgcgcgtgt accaagtgat atcatatggt gccgatccca cagggaaatt 300  
ggataacacg gantcannat tanaagcnat ggaagaanca tntgatggtc caaatcatgg 360  
agttttgang caaggtataa angatctcgg gaggancaag aantggttct tcaagtggga 420  
a 421

<210> 7521  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-G1

<400> 7521

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 aatcaatttt tttttgtgtt gagcaagacg aaaagagtct aatccaatca tgggatgtgt 120  
 acccagaatt gaatttggtt gttcaagcca aagccttact ctttcatgga acttaagagc 180  
 atggaatttg tgtagattga acacaatctc ccatttccag aaacttcctt atcctttggt 240  
 agcttctact cgaaaacatt acaagaacag ttgtcttttg aagagatttt taagttggtg 300  
 ttggcactga ggaatcatca ctgtcagaaa gatttactaa gatgaatctc tttctcgaac 360  
 tctcactaag tgatgaagtt gaagtcactg ctcatgata caagaagaga tnaaagcntg 420  
 ttaaaaaat tgagtgaagc taatca 446

<210> 7522  
 <211> 356  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-074-Q1-E1-G11

<400> 7522

cttatctctt cttgttttag ctatgaagaa gcaatctcaa ttcagatcca atcataccct 60  
 tctcttcttt catctctgat cattaacaac aacaacaacg actcgggttc tgtaaattca 120  
 gttattggag agaaaatggc gatgttagtt gagccaccaa atgggattaa gcaacaaggg 180  
 aaacattact actccatgtg gcaaacattg ttcgaaatcg atacaaagta tgttccgatt 240  
 aaaccattg gaagaggagc ttatggtgtg gtttgttctt ctatcaatcg tgaagactaa 300  
 tgagagagtt gctattaaaa agattcacia tgtgtttgag aatcgtgttg atgctt 356

<210> 7523  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana



<223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-G12

<400> 7523

aattcccgn acgacccacg cgtccgcgga cgcgtgggcg gacgcgtggg gtactgatgc 60  
 tcttgccaac atccgttcca aggtttatct ttctcctaag ctttggtacc tcaggggttaa 120  
 tgtaattgaa gctcaagatt tgataccaac tgataagcaa agatatcccg aggtttatgt 180  
 gaaggctata gtgggaaacc aggcgttgag gactagagta tcgcagagca ggactattaa 240  
 tcccatgtgg aatgaggatt tgatgtttgt cgcagcagag ccatttgagg aacctttgat 300  
 cctcagcgtg gaagatagag ttgctccaaa caaagatgaa gtccctgggga aatgtgcat 360  
 ncccgttgca gtatttgac aaaaaatttg accanaaacc ggtgaaacag caggtggtac 420  
 aatctccaga agcatattat ggtecnatgg gagag 455

<210> 7524  
 <211> 490  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-G2

<400> 7524

acgcgtccga ggatctctc cgaagatttc cactattact ggaagtgata tagatacgtt 60  
 gcaacaaaga agaccacaca aaaacgttat tgagcagccg tgaaatcgat ttaccaattg 120  
 aagcttcccc ccatgatttg actttccctg atgctcgttt gtgggaaagg gtttctaaag 180  
 tgcagagcac ctggagttcc attcttttgt gacaaaagaa aatccttctt cactaaaact 240  
 aagaggggct ttcacagttt acctttgggc actgggggtcc gtgtttatct caacaacaat 300  
 cttaggtact caagcaattc aatagaagtt gtggagaaag ctgccattaa tatgggttca 360  
 aaggaagaca aggnaagata atccagcttt atcctcataa tgatgatgcc atgggaaagc 420  
 tccgtcgact cctaattcct cgtcgaaaac cgtgggggat ccacaaccta ctaaaaggaa 480  
 atccgtgaca 490

<210> 7525  
 <211> 475  
 <212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-074-Q1-E1-G3

<400> 7525

acgcgtccgc aataatctag aaacaaagat aaaaagtaat tatcgteccct atggtatgga 60

ctttaaattc agagttgcaa ctggtagatt cagcaatgga atggttgctt ccgattattt 120

agccaaatac atgggagtaa aagaaattgt accggcatat ttagaccoga aaatacaacc 180

aaacgatctt cttacgggag tatcttttgc atcgggtggt gctgggtaca atcctactac 240

atccgaagca gcgaatgcaa tcccaatgct ggaccaactg acatatttcc aagactatat 300

agagaaagta aataggtttag taagacaaga gaagagccaa tataagttgg caggtttaga 360

gaagaccaat cagctaatat ccaaaggagt ggcaattgtc gtcgggggga agcaatgatc 420

tgatcattac atattttggg agtgggtgctc aacgactcaa aaatgacatc gaccc 475

<210> 7526

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-G5

<400> 7526

acgcgtccgg gaaccggcga aggagagctt aaggaatggg acagagtata tgactatgct 60

tactacantg atttaggcgt cccaccaaag aaccacggc ctgtacttgg agggacacag 120

gagtatcctt acccangaag aggaagaacc gggcggaaac caactanaga agatcctcaa 180

accgagagca ggctaccgat cacatcgagc ctaagacata tatgttccac gagatgagag 240

atttggacac ttgaagatgt cngatttcct tgcttatgct ctaaaagcga ttgctcagtt 300

catccaacct gcacttgaag ctgtattcga cgatactcct aaagagtttg attcttttga 360

agatgttctt aanatctang aaganggaat cgatctacca nnccaagctt tgaattgata 420

gtatcnttaa gaatataccg ncttgagaag ttaaaaggag atattcag 468

<210> 7527

<211> 483

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-G6

<400> 7527

acgcgtccgg agaaaaaaaa aatccatccg atcttcaaaa aaagtcaccc cttttaacat 60  
tcttctccaa tctctctaca aaccctaate tcagccatgg atctcgctgc agaagagctt 120  
caatttctca acattcaagg catattacgt gaatccacaa caatccccaa attttcccca 180  
aaaaccttct acctcataac cctaacccta attttccctc tctccttcgc aatcctcgct 240  
cattccctct ttaccaaac aatcttagct cagctagatg caactcctcc ttcagatcaa 300  
tctaaaacca atcacgaatg gacccttctt ctcatattatc aattcatcta cggatcatctt 360  
cctcttcggc cttctctctt ctctcaacag ccgccgctgt cttcaacgtc gcttcgcttt 420  
acacgggaaa gncaagtttc cnttctcttc aacaaatgtc angcgaatcc tctggntttg 480  
aag 483

<210> 7528  
<211> 469  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-G7

<400> 7528

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tggtggacac gttggtggtg actaccatgg acctcttgac ggaaccaatc ttcccggtga 120  
cgcttgtttg gttttaacga ctgaccctaa acctcgtctc cgggtggacaa ctgagcttca 180  
tgagagattc gttgacgccg ttactcagct cgggtggtcct gacaaagcga ctcccaaaac 240  
tattatgaga acaatgggag tgaagggtct cactctctac cacctcaaat cacatcttca 300  
gaaattccgc ctaaggagg caagctggca aagaatcaac tgagaactct aaagatgctt 360  
cttgtgtagg ggagagtcag gacacangtt catcttcgac atcatcaatg agaatggcgc 420  
agcaggagca gaacgaagg taccaagtca ccgaagctct acgtgctca 469

<210> 7529  
<211> 479

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-H1  
  
 <400> 7529  
  
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 cgatgaccag aaactacgtg cgttttacga caagagaatc tctcaagaag tcagtggaga 120  
 tgctttgggc gaggagttca aaggatacgt tttcaagatc aagggtggtt gcgataagca 180  
 aggtttccca atgaagcagg gagttttgac tccaggccgt gttcgccttt tgcttcaccg 240  
 aggaactcct tgcttcagag gacatggaag gagaactggt gagaggagaa gaaagtctgt 300  
 tcgtggttgc attgtgagcc ctgatctctc tgttctgaac cttgtcattg tgaagaaggg 360  
 tgagaacgat cttcctgggc ttaccgatac tgagaagcca agaatgagaa ggaccaaag 420  
 agagcctcca agatccgtaa nactgtttta cctcaaagaa ggaagatgat gtcaggacc 479

<210> 7530  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-074-Q1-E1-H12  
  
 <400> 7530

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 cggacgcgtg gggaacgttt agcaatgcaa tctgttagat ctcttttctc gaaagagata 120  
 ctagatgtta tagcaaccag cacagctgat ttgggtctct ttagccttga ttcttttaag 180  
 aaaaacaatt tgtctgcac atggcgggga accggagtag accctcctt tagacattct 240  
 gagaatccag caactcctga tgtcaaatct aataacctga atgaaaaacg tgacagcatt 300  
 tcaaaagata gtatccatca gaaagttgag acacctaca agattcacag aaggcaacta 360  
 agagagaaaa ggcgtgagat gcgggcaaat gagttagttc agcacaatga tgacacgatt 420  
 ttgaaactcg aaaatgctgc cattgaacgc tccaaagtct gttgattctg caagtccc 478

<210> 7531  
 <211> 476  
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-F6

<400> 7531

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aaatctgcaa cttctggtgt ttcagctaga tgggtttttg ttctctgtat ttctagcttc 120  
cttcttggtg ttcttgctgt taacaggctt ttggcaagtt ttgaaaccgt agatggcatt 180  
gagagagctt cacctgagca aaatgatcaa tctagatcac ttaatcctct tgttgattgt 240  
gagagcaagg aaggagacat tctatctcga gtttcgcata ctcatgatgt tatcaagaca 300  
ttagacaaga caattttcttc tcttgaggta gaactagcta cagctcgagc agcaagatct 360  
gatggtagag atggatctcc agctgttgca aaaacagtag cagaccantc gaagattcgg 420  
cctcggatgt tctttgtgat gggaatcatg actgcnttca gtagcagaan aacgaa 476

<210> 7532

<211> 473

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-C6

<400> 7532

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccaaatatgg 180  
gaacctgctt ctccagctca actaaatcca cggtgagat ctctcccttt gacctcgtcg 240  
tcaaacctcc tctccttcc gccgccgcca ccgcaccacc aaccaacga atccccaccg 300  
cgaaaacaga aacatcgacg gtgagcttca ccgcaacagt gagattatac ggaccaccta 360  
acagtctaag tgacgtcgta tctccgtttc gctcttctcc acangaaagt tccgctccgt 420  
ttcgttccat cggaagacca naaancgacg attcaaagtc ggatnggaga ctg 473

<210> 7533

<211> 499

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-D1

<400> 7533

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ttggaaggggt gtttgattgc tgggtgttga atgagagcta gtgctgcgta tatttacatc 120  
aggggtgaat atgtgaatga gcgtttgaat ctagagaagg ctagaagaga agcgtatgca 180  
gctggtctct tggggaagaa tgcattgtgt tctggttatg attttgaagt ttatatccac 240  
tttgggtgctg gtgcgtacat ttttgggtgaa gagactgcgc ttcttgaaag ccttgaaggg 300  
aagcaaggaa aacctagggt gaaacctccg ttccctgcta atgctgggtt atatggttgt 360  
cccacaactg ttaccaatgt ggaaacagtg gctgtttcgc ctancaantt taagggcgctg 420  
gacctgagtg gttttctaata ttcggtaggg aaaaataaac nctggggaca aaactccntt 480  
tgtataacaa ggccatgnt 499

<210> 7534

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-D10

<400> 7534

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agcgacatgt acttgcaggt atagcttctg ctttaggcgg tgtaagtgca ccatatgaaa 120  
agacctcaca cgcgcatgaa agacctatca ccaattggct ttgggcagcc ggttgtcacc 180  
cgtttggacc attctcaaac gtctccctga tcagtcaaata gtttcaagat gttgcactga 240  
ggaatactat ttatgctcgg gttgattctg ctctacgcaa aatccgtgaa acatcanagg 300  
caagtacaaa actttgcatt cgaatacctt aagactccac ttggcgaagc cagtgaaga 360  
taaaaagaac anaacaaaaa cggagctatg ggtcgagaag ttctacaa 408

<210> 7535

<211> 421

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-D11

<400> 7535

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gctgacctct gtaacagctt caatgggtgta tcttgtaacc aagaaggatt cgtcnaaaag 120  
atcgttcttt ggaacactag tctcgccgga accctaacgc cggcattgtc tgggtttaact 180  
tctttaaggg ttttgactct gtttggcaac aggattacag gtaatttacc tttggattac 240  
ttaaggttac agactttatg gaagatcaat gttagttcca atgcattgtc tgggtttggtt 300  
cctgaattta tcggtgattt gcctaattta aggttcttgg atttgtcgaa aaatgcgttc 360  
tttgagaga ttccaaattc tctgtttaaa ttctgttaca agacaaagtt tgtttcattg 420  
t 421

<210> 7536

<211> 472

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-074-Q1-E1-D8

<400> 7536

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gtacaatggg atctgttgat gctgctaata gaagtgggaa gaaacctaca gttatatttg 120  
ttcttggttg tccaggaagt ggaaaaggta cccagtgtgc ttatattggt gaacattatg 180  
gttacacaca tctgagtgtc ggagatcttc ttagagctga gattaaatca ggttctgaaa 240  
atggaactat gatccagaat atgattaaag aggggaagat tgtaccttct gaggttacta 300  
tcaagcttct acagaaagct attcaggaaa acgggaatga caagttcctc attgatggtt 360  
tccctcgtaa tgaggaaaac cgagcagcat ttgaaaaagt tactgagatt gaaccaaagt 420  
ttgtcttatt ctctgattgt cctgaggaag agatggagaa gccctgttg gg 472

<210> 7537

<211> 415

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-D9

<400> 7537

aaattaccag acaagagtnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn ngaaaatcta naagaagaga aagctacaaa aatctcaaca 120  
tcgagtcttg ttgggatgtg aaacacatga ttttcgagga gtagagagag acagagagaa 180  
attaagggaa agagctcact tgtgtgactt gttctgtaag agttttggct acagagcaac 240  
catgctaact tgcgccttct cccaaaatct tatccactaa tctcggttaag gaaagtgatg 300  
ttggcaaaat ggtgaagaaa ggaaattggg tttctgctat caanannggt ttttactcca 360  
cattccaaag agaagctagc caatcaggaa ncagagagaa agagtggcaa nagaa 415

<210> 7538  
<211> 423  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-074-Q1-E1-E10

<400> 7538

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tgcttcaa at gatcctgttg attggatgga tcagccgtct gctggccttg ctatccaggg 120  
acttttgagt catatcttag tggaagatta ttcagatatc caaaagaaac ttgctgatag 180  
caattctaca actaacggaa acaaggatgc agaaaactta gtggacaagc ttgaagacaa 240  
tagtaaggca ggtggtgacg aatctgagat agattcatca caggatgaaa aagcaagaaa 300  
tgtggtggcg ttttacaagc tgaagatgat aagaattcag cttatcacag cacaagggga 360  
tcagactgaa gttgaggtgg aagatgtcag aaaagcaciaa cctgatgcta ttgctcatgc 420  
atc 423

<210> 7539  
<211> 430  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-E5



<400> 7539

ttctctctc tgctctccaa ttccatcttc ccatggcgat ttcggnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncgcca 120

tttccanctc tggtaaantc aaaancctaa ctctctcttc ctcagatnca tcaactcttga 180

ggtctctctc cntaagtcga ctcaacgccg gagctcctga gttcgttcct ggtcgaacta 240

ctctccgcn gcctcnacct ccgaggatga ttatcgcgcn acctccgggc gcacngtatg 300

cttcatatgt atcaccagnc aacctccgtt caatantoca gttcttggtc ctgttccaat 360

ccatggcana gttggttcct ggttcaaaaa tcancanogc tcatnagcgc tttcatcagg 420

aatcantcat 430

<210> 7540

<211> 479

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-E8

<400> 7540

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tattgcaaag atgtcttctg attcgtcccg ggaagagaat gtgtacttgg ccaagttagc 120

cgagcaagct gagcgttacg aggaaatggg tgagttcatg gagaaagttg caaagaccgt 180

ggagaccgag gaacttactg ttgaagagag gaatctcttg tctgttgctt acaagaacgt 240

gattggtgct aggagagctt cttggaggat tatctcttcc attgagcaga aggaagatag 300

caggggcaac agtgatcatg ttctgattat caaggattac agaggcaaga ttgaaactga 360

gctcaagcaa gatttgtgat ggcattttga accttcttga ggctcatctc attcntgctg 420

cttctttggc tgagtccaaa agttttttac ctgaangatg aagggaagat tatcatccg 479

<210> 7541

<211> 459

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-E9

<400> 7541

gtgccaaatt ccgggaaaac ccacgcgtcc gcttaattcc ttnattaaga aaccccagaa 60

aaaccctaaa cccttgaagc gtctccttct ctagttcttt gcaagcggaa atgtatcgag 120

tgctatcaaa gttatcttct tcaattggct cgtctacttc caggaaactg gtttctgggc 180

ggattataag tagcagaaac tatgcggcca aggatatcag tttcgggatc ggagctcggg 240

cagctatggt gcaggggtga tccgaggttg cagaagctgt gaaagtcact atgggaccaa 300

agggaagaaa tgtgataatt gaagagcagt tatggcggac caaagatcac anaggatggt 360

gtcaccgtgg caaaaagcat atcatttcaa agctaaagct aagaacattg gtgccgaact 420

cgtcaaacag gttgcaagtg ccactaacia ngttgctgg 459

<210> 7542

<211> 439

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-F11

<400> 7542

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acgagaagac gcagcagagg tttctctttc agtgagaaac gaggaagatc tttctcctga 120

atgtgtagct tgggctgatt cttgcatcat cagttttcta gatgattcag acaacaataa 180

ttgggggaact tttagagatg cttaacaga aatcatcgat atccatcccg agatgtttgt 240

tttttcatca acaacgggaa caagangtgt cctgtctcca gacgaggtta tgactgaatc 300

cgagactatt gatctacgga gatctgaacc agcagctggg tcagcgaaca gtagaactaa 360

ttcatcgaaa tgaagaagtt agcgaagaat taaccccaan ggcaaacttt tgaatcagac 420

ccgtcaaaga attgcttag 439

<210> 7543

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-074-Q1-E1-F12

<400> 7543

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tacatgactc tgagggacac gaagttgagt ctcaacttgt tccatttact gatgaatatg 120  
tggccttaag gaaatatcat gtagaggcat acttaggtca aagccctaca caggtgccaa 180  
agtattggct tgtgttttca gtaactgtgc ctctcttgg cttcactact tacactatct 240  
ccactgctaa gaaaacagat ggatattcta gcaaatcata cgtctccaat atcctaaaag 300  
gcgaacagtc aataattaac attggtcagtg ggcacatgaa gcttaatttt tccactgac 360  
aagggacagc aatcaattat gttaacggca gaacctcgat gacagaacca gtcaaacaga 420  
catttaacta cta 433

<210> 7544

<211> 480

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-074-Q1-E1-F2

<400> 7544

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cgatcaacag aaacgccgag agctttctct tattcgtcag actcagcatc gcagtgatgc 120  
tcagcagcga gcccgaaacc tcgcctcttc cttaatctcg ctccaatcct cctctcccga 180  
tgtcgacca gagatactat ctgaagccgt gcctgagctt gtaggaaccg aatcggaatc 240  
gagtagcttt gacgttcgtc aagcttcgag gctcagagga cctgaggcac gcaagtgggt 300  
cgcaaagcag ctaatgttac ctgaatggat gatcgacgtc cctgataatt taagccaaga 360  
ttgggtatgtg ttagcaagac cagctgggaa aagatgtttt gtagtttcat ctgatggaac 420  
aactgttagt agagtacgaa atgggtccac tttgcaccc ttccttccg cattaactgg 480

<210> 7545

<211> 474

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-F3

<400> 7545

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 tgggtctcta atgctgacct ctgtaacagc ttcaatgggtg tatcttgtaa ccaagaagga 120  
 ttcgtcgaaa agatcgttct ttggaacact agtctcgccg gaaccctaac gccggcattg 180  
 tctggtttta cttctttaag ggttttgact ctgtttggca acaggattac aggtaattta 240  
 cctttggatt acttaaagtt acagacttta tggaagatca atgttagttc caatgcattg 300  
 tctggtttgg ttctgaatt tatcggtgat ttgcctaatt taaggttctt gggatttgtc 360  
 gaaaaatgcg ttctttggag agattccaaa ttctctgttt aaattctgtt acaagacaaa 420  
 gtttgtttca ttgtctcata acaatctctc aaggatnaat cctgaatca atcg 474

<210> 7546  
 <211> 443  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-C4  
 <400> 7546

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 tgaagctatt gctcattctt ttagcttggt gcttctgtcc ttgcgactaa agaatcctga 120  
 tgacgggctt gttgttcgag ccttcagct tctcttctca ttgaggactc tttcgttgga 180  
 ccttaataac ggcacattac cctcagtttg caagcggttg atccttgctt tatccacaag 240  
 tatgctgatg ttcgctgcca aaatatatca gattcctcat atttgtgaaa tgttgaaggc 300  
 ccaacttctt gggatgatgt gatccttata ttttcattgg agatgactta caacttcacg 360  
 taagaccaca ggcaaatatg aaaagatttt gggctctcaa gcgatagcca aatggctacn 420  
 tcaaatgctg tttgagatgc gaa 443

<210> 7547  
 <211> 516  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-A8  
 <400> 7547

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 tccgcagata gtgaagcgac ttcatgcatt gagctaccac atgaggagct acttttggct 120  
 agacttgaag cagcttaatg acatttaccg atataagaca gaggaatact ctcaactgc 180  
 tgtcaacaag ttcaacgtaa tccctgattc tcttccagaa tgggttttcg actttatgcc 240  
 gcctcacgga gggttcttta ttggcaacgt tagccctgca agaattggatt tccgttggtt 300  
 tgctttgggt aattgtatag caatattgtc ttccttggct acacctgaac agtcgacagc 360  
 aattatggat ctgatagaat ctgctggga agagttgggt ggagaaatgc cactgaaagt 420  
 ttgctatccc cgccatagaa agccatgaat ggagaatagt aactggttgt gancccaaaa 480  
 acactcgggtg ggagctacca caatggaggg atcgtg 516

<210> 7548  
 <211> 478  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-B1  
 <400> 7548

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 taattagtgg tgagaataaa tctaaatata aggtacaagg ggggtgaagggt gtgtgtgtct 120  
 atatatggtg gatgattagt ttctgccatg tgctatggaa tcaacctctt atgctttatg 180  
 ttctgttttag ctctacctt atactataac tttaattatt catcaataat tctaattctc 240  
 ctctgttttt taatatacta gtgtttcata taaataactg ctctctctac tcattccctc 300  
 cataacatat atttcttctt cgtttcattc ataatccgtc ttataaccac aagattctaa 360  
 aacatgggag aagaagtana accagaggca aangaggcaa cctctgctcc acaagccgtc 420  
 cccgctgaag aaggaggaga aagaagaaag atgtngcgga ggagaanaaa gtggcggc 478

<210> 7549  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-074-Q1-E1-B11

<400> 7549

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caagatgcta tcatcaaccc catcgtecat ggcgacaagc atcgccactg gtagaagaag 120

ctacagtctg attccgatgg ttattgagca ctcatcgca ggagagagag cttacgacat 180

cttctctcgt ttgetcaagg agcgtattat ctgcatcaac ggtcccatta atgacgacac 240

atctcacgtc gtcgtcgctc agcttcttta cctcgagtct gagaatcctt cgaagccgat 300

ccatatgtat ctcaattccc ctggcggcca tgtcacccgc ggtcttgcaa tttatgatac 360

tatgcagtac attcgttctc ctattagcac aatttgtttg ggtcaagctg catcaatggg 420

cttctcttct gttggcagc 439

<210> 7550

<211> 395

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-074-Q1-E1-B12

<400> 7550

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cacaagatac ataaaaggat gtctcctgag cacatgtggg acttccctta cagtattcct 120

tcttcgtgaa acttccccct tatataagat tactgaagtt gcaagcaccg ttgtaagatc 180

tgatgaagaa gctaggaatg gagacattcg tgagagcaga gaatatggaa aagctttatt 240

tttgtcagca aaagattttg tgagtgggaa tgatactgaa gagtgaggag agagtgggtg 300

aaagacggag ggaagaagga agcgaaagca gtgttccaag atggatgtct ctgtttctga 360

caaaagcttt gcatattctg agccaaagac taagc 395

<210> 7551

<211> 474

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-074-Q1-E1-B2

<400> 7551

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aaccgaccat agagattcgt gggttcttct tagtttcgac agattcttga tccgttttag 120  
 ttgttacgct catctttgct ttatacatc agacccttct cttctcttcc ttctttatct 180  
 aagaaacatt agggttcttt gaaatcttgc taaaaaaaat ggggtgttgag aaaatggtgt 240  
 gtttagcttc tcgtacgggt cgtcagtttc agagatacaa caaaggctgt cgtcaagtcg 300  
 ttggatgtgt tccttacaga ttcaagctat ctaatgatgg taaaataagt gatgaagtag 360  
 aagttcttgt tatctcttcc caaaaagggc acgccttaat gttccccaag ggtggttggg 420  
 aacttgatga atctgtagaa gaaactgcat caagagaatg tcntgaagaa actg 474

<210> 7552  
 <211> 424  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-B3

<400> 7552

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 tgacgggctt gttgttcgag ccttcagct tctcttctca ttgaggactc tttcgttggg 180  
 ccttaataac ggcacattac cctcagtttg caagcggntt gatccttgct ttancacang 240  
 tatgctggat ggttcgttg caaaaatata tcagaattcc tcatatttgt gaaatgttga 300  
 aggcccaact tcctgggtgg atgtggttcc ttaacctttn cattgggaag gacttanaac 360  
 ttcacgntaa ggaccacaag ggaantttga aaggatttng gggccccaag caattagcca 420  
 gang 424

<210> 7553  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-B4

<400> 7553

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ggcggcgata ttccgcatte tactcattct cgcggtcat aactgggtccg tcgccgtatc 120  
 ttctcaatcc accgaattcg ccggagattt cctccattc gaaacagagt gccgcggtac 180  
 aattgccgag tgctctgttt ccgccgccct cggagacgga ggagatctat tctacggcgg 240  
 aggagaaatg ggagaggagt tcgagatgga ctacagagatc aaccggcgca tattagctac 300  
 gaggaggtac atcagctatg gtgcgctgag gagaaacaca attccgtgct cacgtcgcg 360  
 ngcatcttac tacaattgtc gacgtggcgc tcaggccaat ccttactctc gtggctgcag 420  
 cgccatcact cgctgccggc gctcatgaat ctatcactgt cagtctcact gnaatt 476

<210> 7554  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-074-Q1-E1-B5  
 <400> 7554

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 ctccaagaac aaaaaaaaaa aatgaattc agaatcgcta gaaaatcttc accgtccatt 120  
 aatcgaatca tcgaagtcgt tcgtcgatta tcgtctcgag actgtgttaa cagatcgaga 180  
 gttaccgtat ttctgccgga tttatctagc gatgatgatt gagatgaagt ttctctttca 240  
 tctggcggct ccggcgatct ttgtttacgt catcaacaac ggcattgtcaa ttcttacacg 300  
 tatcttcgct ggacacgtag gaagcttcga actcgccgcg cgtttcactt gggaaacagt 360  
 ggtttcaaca tgttcaccta agggacttct gcttggaatg ggaagttgca gtgggaaaca 420  
 ttaaggtggg tcaagcac 438

<210> 7555  
 <211> 472  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-074-Q1-E1-B7  
 <400> 7555

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accctgatga cattgtggcc aaattctatt ttgcaaagaa gaaactttta tgggagtttc 180  
tcttcggaga accagtggct aacatgccga ggctgaagag taagatcgag attcaatgga 240  
atgatgtctc atcttttgaa gagagtatta attcacgtga tgaaactgga atcctcaaaa 300  
tcgagttgaa aaaacgtcca acattcttca caagagacta atccacaggc aggaaaacac 360  
actcaatgga aacaattgga ttacgatttc accggagatc aggcttctta ttacaggaga 420  
catacacttc attttcctcc cgggagttct gcaaaagaac tgggagaaac ct 472

<210> 7556  
<211> 472  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-B8  
<400> 7556

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cgggtggttat agaagggtgac ctaacaccgc agggacctcc cgcagacaag tggcggttat 180  
gcagcgtcca agaagtggaa gaagtgaagt gtttgatccg aattgttctt atctggtcgg 240  
ccggaataat ctactcgcg gccatgacaa cacaaggcac ttccacggtc tctcaagctt 300  
tgaaaatgga tcgaaactta ggtcctaaat togagattcc ggctgggtca ctctccgtca 360  
tctctctcct cacaatcggc atctttcttc ccttctacga ncgcgttttt gtaccattca 420  
tgcggcgaat caccggccat aaatccggaa tcacactcct ccaaaggata ng 472

<210> 7557  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-074-Q1-E1-C10  
<400> 7557

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aattgattca ggagaagttt gaagtgaaga aactaggaaa cttcctcaag cagacttcag 180  
aagatgcaaa gaaactggta aatcaagaaa agtcattctc ttgtgctgag atcgaaactg 240  
caagggccgt tgtgctgaga cttggagagg cttttgaaga acaagaacgg atttctgaag 300  
cttctagagc tcaggggccg gatgtggaga aattgggtga ggaagttcaa gaggctaggc 360  
aaatcaaacy gatgcatcac ccaacaaagg tactacatca attcattgca ctttaacttc 420  
ataatttgat gtgcca 436

<210> 7558  
<211> 437  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-C11  
<400> 7558

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catggaaaag gtgtcttctc tactgtggtt cgtgctaaag acttgaaagc tggaccagct 180  
gaacctgaag aggtggcaat aaaaattatc cgtaacaatg agacgatgca taaagctgga 240  
aagattgagg ttcaaattt gaagaagctg gcangcgctg accgagaaga cangcgccac 300  
tgtgttcgat ttctttcaag ctttaagtac cgtaatcacc tttgcttggg gtttgaagtc 360  
gtccatttg aatcttcgtg aggtcttgaa gaagtttggg cgcaacattg gtctccaact 420  
ctctgctgtt agggctt 437

<210> 7559  
<211> 398  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-C12  
<400> 7559

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ttgtggccaa attctatattt gcaaagaaga aacttttatg ggagtttctc ttcggagaac 180  
cagtggctaa catgccgagg ctgaagagta agatcgagat tcaatggaat gatgtctcat 240  
cttttgaaga gagtagtaat tcacgtgatg aaactggaat cctcaaaatc gagttgaaaa 300  
aacgtccaac attcttcaca gagactaatc cacnggcagg aaaacacant caatggannc 360  
aattggatta cganttcacc ggaagatcag gctttctta 398

<210> 7560  
<211> 426  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-074-Q1-E1-C3

<400> 7560

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gtgcatgcga cgtcatagct cttctatagt gtcacctaaa ttcaattcac tggccgctcg 180  
tttacaacgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc ttgcaagcan 240  
atcccccttt cggcaagctg gcgtaatatc gaanaggncg gcaccgatcg cccttcncaa 300  
aagttgcgca gcctgaatgg gcgaaatggg aacgcgcctt gtaacnngcg caataaagcg 360  
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<223> Clone ID: LIB24-074-Q1-E1-A5

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tggtgacagt tccgggagga agaaaaaggg ataggaagga tgacttgctt gtgatacgag 180

ataatggaac ctcctttaag atcatcacg tggtgaaaga gatgacccaa caacggtaat 240  
 agaaagagaa gagtggacca agactagaga agacatggag aaacatctca ggaagctacg 300  
 agacttcagt gtctcaaatt ggttctaaga agaactcgag agacaccaaa cgacaagtca 360  
 gcataacttt cttcctgaga tggaaaacga gagcagatga tctaaatcga tgatatggtg 420  
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<210> 7562  
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 <212> DNA  
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 aaaccctcct cttttcccg ctaaaaattt gtgcattgct cctgaaaggg atcagggttta 180  
 ctaaggggtgc tttttactac aaaagcaaca atgtagtgac aggtaaaaga gtgtttttcca 240  
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 tgtcaaagaa gaacgaggaa ggtgtgattg ttaacaggta cagacaaaa gagccttaca 360  
 ctggaaaatg ctttctcaac accaaaatca cagctgatga tgctcctgga gaaaactggc 420  
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 <223> Clone ID: LIB24-071-Q1-E1-H1  
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aaatctctct cagatccggc tctgatcaac aaggtctgcy atcacatggt gagaatctag 180  
 ccactctgtc taaatgtaat cctcaccggc gttccaaagt caaggaacta agctcggaag 240  
 tggtagatag taatccttac agtaggctta tggcacttca gcggatgggc attgtggaca 300  
 actatgagag aattacagag ttttccgtcg ccattgttgg aattggtggt gttggaagtg 360  
 ttgcggctga gatgcttacc agatgtggta ttggctgtct tttgttgtnt gactatgaca 420  
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<210> 7564  
 <211> 440  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gtaagagaga gctatggcgg aggagcactt cgacgttctg actaaatccg gtgagaagac 180  
 cgggtgtgtcc aaaccaggg gagagggttca cagagatgga gattaccatc gtgctgttca 240  
 tgtctggatt tttgtggaga ctactcaaca gctacttctc caacttcgat ctgatgataa 300  
 agattcttgg cctgggtcaat gggacatctc tagtgctggc catatatcag ctgggtgata 360  
 catcgcttct atcctgcaca gcgggaagct tgaggaagag cntgggcgta aaaactccca 420  
 aagggatgca tttgaaaaga 440

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 <211> 497  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-071-Q1-E1-H4  
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 gcctaggtac gtggttaatc gagtgacagc aggagactat gactgcccaa gaaaggtgat 240  
 gaatttcctg acagatcttc atgcagcctt tcgcatgctc aatctcagga acgatttctt 300  
 gcgcaagaaa ttcgacagta tgaagtacga cctaagaaga gtggnagaag ttactatga 360  
 tgtcaagatc cgaggtttga tttccggcgg agattctcct gggcgctcaa agcatccaag 420  
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<210> 7566  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 gccattttta gaaacgctcg gatatgtgac aaaaagctta gtgataacaa ggtagctac 180  
 ggagttttct ttggaaatca aaagcatctg ccatcacgcy tcatgaagaa tataatggag 240  
 gtcgagaaaa cccaagatag aatgaaaag tattggttac aagaagccca tgttccccta 300  
 tacttgatca aagaatttga agagagcttg catagagtac aaatgccttc ttcaaccaag 360  
 aagccatcca agaaattatc aaagcttcag agaaagcagc tgaaagcttc cctcatggac 420  
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<210> 7567  
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 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-071-Q1-E1-H7  
 <400> 7567

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 aaaaaaagg 189

<210> 7568  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 taccaatggg acacagttgc agactcagct cgtaacgctc ttggtatgag atacaagatc 180  
 cttcctttcc tctacactct taactacgaa gcgcatatga ctggtgcacc catcgctaga 240  
 ccgctcttct tctcattccc tgaatacacc gaatgttacg gcaacagcag acagttcntg 300  
 cttggaagca gcttcatgat atctccgggt tctcggagca gngcaaaacc gaanntagag 360  
 gcaattgttc gcaanaaggt tccttgnnac gcaagggtgtt cggcattgac tnaagcanta 420  
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<210> 7569  
 <211> 441  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngctattcat aaacccttga 180  
 agaaacaaga ctctctctc tctatctctg tccctttctt acaaaagtgt atggcggagg 240  
 ttttgggaac atacttcttg atattcgccg gttgtgccgc ggtggctgta aacacacaac 300

atgacaaaan ccgtgactct tccagggatc gccatcggtt ggggacttac cgtcatggtc 360  
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<210> 7570  
 <211> 432  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-072-Q1-E1-A4  
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 agagaagagt cnataatata agcgtagaga tgggaaatca gaagctcaaa tggacggcgg 180  
 aggaagagga ggcgttactc gccggagtta ggaagcatgg ccctggaaag tggaagaata 240  
 ttctccgcga tcttgaatta tctgagcagc tctctagtcg ctctaacatc gacctcaagg 300  
 ataaatggcg taatttaagt gttgctcctg gtattcaagg ctctaaggat aagatacgga 360  
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<210> 7571  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 tatcggatct ggggtctcctt cgctttcgtt tcaagattat tttgggagac gaggaggcgt 180  
 tagctgtaat tcattgtata cttgctttgg ctattaaagc cgtcacacaa aaaaagtaaa 240  
 agcaacacac acacataaat agacacactt ttttacgtat atgtgtgtct tctttcgtct 300



ctgttgggaa tagatcttgt cctaagagat cacttcgaag tctgatctaa aagtgagaaa 360  
 ctttgggttc ttgttttggg tttttggnat cntgtctaata ctgggggaaat aatgggaaat 420  
 gagtcc 426

<210> 7572  
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 <212> DNA  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB24-072-Q1-E1-B1  
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 tgtggctgct tcttgcttaa tccggcgtgt tggactatct ttgcctgcgg ttgtgaggcc 180  
 tattctagac tctctcgagg cttccaaaca agttaaaagt cctccactta ccgatgtgat 240  
 tgctggtgtc acaggggaaga nacagagtta aaacaagcaa tgacttcccc tgttttctta 300  
 cattcagatg atccctattc cttttttgtc ntttactoct ctctaattca caatgaataa 360  
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<210> 7573  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 agatacaaca aatatggcgg ttagtatgaa acaaattgtc ttggctgtct ctgctttggg 180  
 cgtcttatcc tttgttttgg gagttatcgc cgagaacaag aagcctgcgt ctgggactcc 240  
 aataagtgga aaaggagtag ttatctgcaa atacccatct gatccaactg ttgccttggg 300

atacctttct gctgcttttc tcttgccctg cactgtanca aggatacaaa atccttggtc 360  
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<210> 7574  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 aacaaggata cgaatctcct tctttatgag tacatgccta atggaagcct tggagagctt 180  
 ttgcatggat ctaaagggtg tcacttcaa tgggagacga gacatagagt agccgtggaa 240  
 gctgcaaagg gcttgtgtta tcttcacat gattgttcac cattgatctt gcatagagat 300  
 gttaagtcca ataacattct tttggactct gattttgaag cccatgttgc tgattttggg 360  
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 tcctaa 426

<210> 7575  
 <211> 424  
 <212> DNA  
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 <223> unsure at all n locations  
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 catcatagga agcagttgag tgtgttcttc atagaatcag ataacagacg tcttgccttt 180  
 ggccgtggct ataccggagg aaccactccc gttaacatcc atggcaaacc catcgccaat 240  
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agaatggcgt atttcggact ctcggtgaac atggtgggcg ttcaagttct acgtaatgca 360  
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 caaa 424

<210> 7576  
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 tgggtgcgcct gttgcaactg ctgctcctgc tgctggcggt ggtgctgccg ctgctgctcc 240  
 tgctgccgag gagaagaaga aggacgaaac cancagaaga naatgatgga gaattgggtt 300  
 ttggcttggt cgattaagtg cattttactt ggttttttcc tcctcnaatt tgagactatt 360  
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<210> 7577  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> Clone ID: LIB24-071-Q1-E1-E11  
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 tcaacgtctc tccctcggtt ctcggtttcg cttttttccc ttttctctt ctattttacc 180  
 ggaatccgag aatttttgat cagatctagt ttcagaaata ggtagttcc aacaatgttg 240  
 acggaacgag gaaggcgaat ttctggtttc aatgggagtt tcgaatttag caatagaaaa 300  
 ttccgtgggt atggattcgt agatcgatct caagggttcc atgaaaggag tccttcaaga 360  
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425

<210> 7578  
<211> 506  
<212> DNA  
<213> Arabidopsis thaliana  
  
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tgaagttgat tattcaaata ctcttttgaa tcttcaattt actcattaca ttttcacatc 180  
aaaccatctg accacaaaca aactagaaa tttcactgag agaaacttac catgtctgaa 240  
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<210> 7579  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> Clone ID: LIB24-071-Q1-E1-E3  
  
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<210> 7580  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana

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<400> 7580

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 cctcggcgct gaccgtatcc ttgaagctat gtctgtggct tcgcaacctc gtcacacaga 240  
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 ttcgcttaat agggaagaaa ttggaagaat ccnggantgt taactgaanc acttaaggctc 360  
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<210> 7581  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7581

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 agactttctt acgaatccga agaaaaaaag atcgatanca aagacgatct cgttgttggt 240  
 tacagaanct tangcccaag tgggtgcatg ggaagtgtta taggcaaaag tggcaaagtt 300  
 attancttga ttaggcaaga aactagagct aggatcaaag ttgttgatcc ttttccagggt 360  
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430

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<211> 459  
<212> DNA  
<213> Arabidopsis thaliana  
  
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<210> 7583  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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gctataaact taagaccagc aacaaagata gaggatttgg ctgatatgat ggcgaagggg 180  
tcaaagtgta gatggggaaa cttcatagga acggttatat ttccgttggt ggtgaaatca 240  
gagaaagatc cgttggagta cattcgacga gccaaagcta cgatggatag gaaaaaaata 300  
tctctggaag cttttttttt ctatggaatt attaaattca ctttgaaatt ttttggagga 360  
aaggcagtag aagcttttgg gaaagaggat atttgggtcac acatcattgg cattttcaaa 420

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<210> 7584  
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<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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gacttggaact angtgcggct ttgactgacg agaacacttg ctccgatggg ttctcgggtc 240  
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aaaccagcaa cgctttgtcc ttgattaatg cctttgctaa aacttactaa tttaaaacta 360  
tattttgtcc tgtaaaatat atatatagat aaatgtaatg tcntgccaac agtttgatgt 420  
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gcataatacg taattgtcag atggtataca acaactgtgg acaagagtgt atgtttttca 300  
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aaatcgatga gctgatnaaa gantccnctt ggatttgtgc ctngtactt cctaanaagg 420  
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 caagcgtacc ccactctcta ctctcacttt ccaggaatat ggantaacnt tatatcnata 420  
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 tgttttcgta ctcttcttgc tctccactgt tttgcctcac catctctcac tgggagctcc 240  
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taaactttgg gagcaaagta agcaagtcag agaagaagga caaattagct gaaatgctgg 240  
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<211> 428  
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caattcctcc tcgagcacag gtacaatctc cacttgaagt gatgaacatc cgccctanca 240

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<210> 7594  
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 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7594

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 <212> DNA  
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<223> Clone ID: LIB24-071-Q1-E1-C5

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catcaatgga gaatgattgg gatcttcaag ctattccgat cgccgccaaa tcttctcttc 360  
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<223> unsure at all n locations  
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 <212> DNA  
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 <212> DNA  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB24-071-Q1-E1-D9  
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 aaggtcaant ctgttganat gcaccaacga antccctcct tgaaggcact tccaaggtga 300  
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<210> 7607  
<211> 444  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
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 accccaagtg gtgcagtggg tcaataccca cgttgggtcca ttgggtcaac gtaaaggctt 240  
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 aggtgaattc aaaacactaa cagacgcaat aaagagcggt cccgcaggga acacaaagcg 360  
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<210> 7608  
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 <212> DNA  
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 <223> Clone ID: LIB24-069-Q1-E1-C1  
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 aaaatcgaac tgggtctggt gatttcttca ggtctaaaat cagattagat tagagaagaa 180  
 gaagaagaat gctggaagct gtagatagct caggagtggg gaatggagga ttcccgcaga 240  
 ttcagagctt ttacggcgat tgcagtgtg aagaagagtt atcgggtattg ccacgtcata 300  
 caaaagtggg ggtcaccgga aacaaccgga cgaaatcggg gcttggtggg cttcaagggt 360  
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 <211> 413  
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 <400> 7609

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tcaaggcatc cagattggag tcctgcagca atcaaatcag ctctcatgac aactgcttat 180  
gttcatgaca acatgtttta gcctctttacg gatgcatcag gagcagctcc ttcattgcct 240  
tatgatcacg gtgcaggaca tatagatcct ttaagagcta cagatcctgg tttgggtctac 300  
gacattggac ctcaagagta ttttgaattc ctctgcactc aagattttaag tccatcacag 360  
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<210> 7610  
<211> 397  
<212> DNA  
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<223> unsure at all n locations  
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tcggatcatc tcattgagtg tgattatgta agtgaaccaa cggctctcaa cctctcaaag 180  
tcattgaaat ctcgatgtgg gtcttcttct tcttcagcac aaccattggt agccgtagat 240  
gtaacaactc aaagtcaggg cgaaaaaccg gaggaagatt tgcttctgca agatacaaca 300  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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cactcggata ctaacagaca tggcttgggt caccatgaag gcatacctga acgtggatgg 180

tgggtccattc ctaataacca atgtgttcga gttccacaat ggaaggtggc acatgggttca 240  
 tcatcacagc tcagtgatgc tcatcgatga tcaacaagtt gttgttcatt gatgaatgat 300  
 gataatatct tttagttttg gtttccttct cttcttttat tttcatgggg acaacaaata 360  
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<210> 7612  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 gatgcttctc aggaaaacaa accttctaac ggcaacaagt cgggcgattc cgcggtccg 180  
 aaatcgttcg gtttaaacac ggattggaga gagttcagag cgaacttggt tatgaaagag 240  
 caggaagaaa aggcggaagc tgagggtcat gaatcggaac ctataggttt gaaatgggca 300  
 catccgattc cgtttcttga gactggttgt gttctagttg ctacagagaa gctaagatgg 360  
 ttataagaac atttgcgaag aactgttgtg cttcctctta gaacangtac tanacacca 420  
 caaagaaagg gcnttttg 438

<210> 7613  
 <211> 494  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 tcaatttctc ttcaatggct ataacacacc ccaaaatccc ttctttcggt ttacaccca 180

ccggaatatt cctaaaccca tcaaaatcag tgtgtttggc ttcacatcat cggcttccga 240  
gagtttcatg ctctgtttct actactactg attctcccaa gctagtgact tcaacaaagg 300  
tgacggcaat ggatggagtg agctctagag acttgagat gtcgaattta acggcgttat 360  
cgcctttgga tggacgttat tggagtaaag ttaaggactt ggcttcttct ttgagcgaag 420  
tttggattga tctatttccg agtttttgtc gagatnaaat ggcttcttaa gctttcnaat 480  
aatcctgaag tcac 494

<210> 7614  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-069-Q1-E1-D11  
<400> 7614

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ccgagactcc atggctcgaa ccttcatctt atggcttcac gggctaggtg attccggacc 180  
tgccaacgaa cccatcaaaa cacttttcag gtcccaggag tttagaaaca ctaagtggct 240  
cttcccttct gctccaccaa atccagtctc ttgcaattat ggtgcagtga tgccttcttg 300  
gtttgacatc cctgagcttc ctcttactgc gggatctccg aaagatgaaa gcagtttgct 360  
taaagcagtt aagaacgttc atgccattat aagataagga gattgcaagg agggga 415

<210> 7615  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-069-Q1-E1-D12  
<400> 7615

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ccctcatatc tccgtgtttt ctcgctctag taccgcgagc tengannaac cangaagcaa 180  
tccgttaatc tagaagcggg gttgagaaga tgacgattac atcaantatc tctgtacana 240

acnataacct cgttgttcaa gggaagacta tccttaccaa aatccctgan aacattatcc 300  
 taactccggt taccggtaat ggattcgnnt ccggttcatt tataggcgcn acgtttgaac 360  
 aaagcaaaga gtcntcangt gttccccanc ggtgtantgg anggtcctcc gttcaagtt 419

<210> 7616  
 <211> 511  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 agaaagaaaa ncatggnggg aaagaaagaa gaaaaagcgt gaatgaaagc aagttgatgg 180  
 gtggcgattt gatgaaagcn aaatgtagta aacgcgctct tcaatggacg ctcgtgtatc 240  
 tcaaagataa gcctccgccc attccggaca tcctcctctt cactgctcaa acctcatctt 300  
 ggatctcaag ctgcgtctaa tgcttctctt tatgggcgcc gctccgattt gaagcttata 360  
 aaactcattg caaagaagaa tcataaagaa cgctgggatt gaatccgtcc ttgatggaaa 420  
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<210> 7617  
 <211> 439  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gagcaaatcc tgatttactc tcctctcat catctctcat catcgagatt catagtctct 180  
 tttgccgctt ggattcttcc aaggttantg agctgctatg gcaactcatc agcaaangca 240

acctccttcc gattttcccg ctcttgccga tgaaaattcc canattccag aggctactaa 300  
 gcctgctaata gaggttcagc aagctaccat agctcaggat cctccaacat ctgtgtttta 360  
 naattctgaa ccaatacggg aggattaaat tcagaacgct atcaaattcc tttcgcaacc 420  
 ganggtaaaa gcctcctgt 439

<210> 7618  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana  
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 tgctgccctt ccaaccaagc tagaaatggc tatagtgtat gccgtataag gttttccaag 180  
 ggaagggtga tgcaagtga tggaatgcaa aactctgata catgccctcg aggttgggta 240  
 aacgccattc tcgaaaactc agctgatgct accaatgagc actgcaagtt aggggtgtgaa 300  
 acttctgtgt gtgggtgcca tgaacactct ccaagaactc tgatgcaagt gaaattgtga 360  
 atggagcgtc ggaacaatgt gccaaaggat gttcnaattt ccgtaccaa gagctaagt 419

<210> 7619  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-069-Q1-E1-A6  
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 cggattcaac ggccggattg cgagcgtatt gactaacgca ggggaccaag cgggtgtcgg 180  
 aaaagcgagt gtgagccaga aggtgattga agaggaagcc aaagttattg tgggtaccta 240  
 cgcgcgagct ccagtgggtc tctcgagtgg gaaagggtgt aaattgttcg accctgaagg 300



aaaagagtat ctggattgtg catctggaat cgctgtgaat gctcttgggt catggagatc 360  
 ctgattggct tcgagctgtc actgagcaag ctggtgttcc tgcccaatgt cagcaatggt 420  
 aantacacga ttccctcaan ataga 445

<210> 7620  
 <211> 412  
 <212> DNA  
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 aagaactgtg agtcagtgga aatgtatctt aattctgaga aattggcgaa aaccattggg 180  
 agattggcgg aaaagacacc tgatgttggc gatacagtaa gggggattct ggtgaagaaa 240  
 gggttcactt atcagataat ggcacctgac gaactccatg ttttctcaca gctatcaaca 300  
 gcaactgtaa ctcagcgaat tacaatcccg tttgtaggag cttttgggtg gataaaacat 360  
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<210> 7621  
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 <223> unsure at all n locations  
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 gaagttcttt ttttttagct gttgagtcac ttgtttgtac tattcgacaa tttttgtgtt 180  
 cttgaagggtg aagaactcta ttgaggttct ttggtaaaaa aagnngagan naaaaaaaaa 240  
 gg 242

<210> 7622  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7622

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atcgttaacc agtgtagcta caccgtctgg cctggacttc tctccggcgc cggaacctct  240
cctttaccta naaccggatt ctctttaaac cctaccgaga caccagttat cccgatcccc  300
gcagcttggc cgggtcgat ttggggtcgt actctctgca cacaagacgc aaccaccgga  360
aagattcact tgcattcagc ggggactgtg gggtcttcca nccgtagaat gc          412
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 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7623

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ctggttggtg tctgttaccg ggccactgaa ataccgagtt ggttctgcca ccaaagacta  180
ggacgttcac tagaaatccc attgcctccg cactggtgtg atattaactt tggtggactt  240
gcgttatctg tagttgtctc attcaaggac tatgaagaca gtgcgaaacg tttctcggta  300
aagtgttgtg gcaacttcga agaacaaaga cagttccttc acgagatttg atttcactct  360
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<210> 7624  
 <211> 452  
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 <213> Arabidopsis thaliana

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<213>      Arabidopsis thaliana
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 tcctccaact aatagcctat caatggatta tcaagacggc agattctgaa agtgtgttga 360  
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 <211> 414  
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<223> unsure at all n locations  
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 ttctatcatg atatgtgact acccatctgc cataganaac tgggtcaaag agaaagtgga 300  
 gagcgaaatg gacaccgttc tggcaactgt gaaatgcatg agagcactca nggcaaggtt 360  
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<210> 7628  
 <211> 405  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7628

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ttgggaaact gagaagtcaa aaaggcaaat gcgagtggag gagattgagt tttagaattc 180  
caatgtcttg ggctgctcct gatgatatct tcttctccac ttctcttgct gcntacctag 240  
acaagaaact tcttgtgttg ctctgtgatg gtaggaaact gatgggtcta ctctggctcct 300  
ttgatcaatt tgctaatacg ttttagnana agcttatnga aagagtcatt gtgggtggat 360  
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<210> 7629

<211> 409

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-067-Q1-E1-H7

<400> 7629

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ggagctagat cgttcacgtg cttttgccag agacgtcaaa cgtatcgtcg ttaagggttg 180  
gacagcagtt gttactggaa aagggtggaag attggctctt ggtcgttttag gagcactgtg 240  
tgaacagctt gcggaattaa actcggatgg atttgaggtg atattggtgt catctggtgc 300  
ggttggtctt ggcaggcaaa ggcttcgtta tcgacaatta gtcaatagca gctttgcgga 360  
tcttcagaag cctcagactg aacttgatgg gaaggcttgt gctggtgtt 409

<210> 7630

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-067-Q1-E1-H9

<400> 7630

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atgataatcc ctatgtcata ccagacatgg aaccaacaat gcgaaagcaa attcaagaat 120

gtaattggca gattgtcaat gccacaactc cgcgcaacta tttccatgtt ctgcggcgac 180  
agatacacag agacttccgt aagcctctga ttgtaatggc accaaagaac ttgctccgtc 240  
acaaggactg caaatcaaat ctctcagagt ttgatgatgt ccaaggccac ccaggttttg 300  
acaagcaagg aactagattt aagcgattaa tcaaggatca agaatgatca ctctgatctt 360  
gaagaaggca tcagaagatt ggtactttgc tccggaaagg tctattatga gcttga 416

<210> 7631  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-069-Q1-E1-A1  
<400> 7631

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attggaaatg ttatttgcag cagaaggagg aggattcttc tcttcatcag cttctggtta 180  
tagcaatggt ttagctcttc ttctattagg tcaaaagact gaacaaaaac caatcaaagt 240  
ttcatcacia tggaaccatt atcatttagt tcttgaagat tctgataccg ggtttcgggt 300  
agattcgtct aagaattggc tctcttctgc ttgcacttct ctcatatgtt ttgggtcgaa 360  
aatccgaaag actggaaagc gacgggaaga aagatgnngc accgagtgtg gangactata 420  
ataactgtga agtcactaan aaggtttcaa 450

<210> 7632  
<211> 416  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-069-Q1-E1-A10  
<400> 7632

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cgaggattca gaagcagcag tcagagaagg ctaagaccaa taaagctcgg accagaggaa 120  
acgggttttg tatgttcggg tctgtcttga agctgctgac ataccgtata aaaaaaccgc 180  
gtttggataa cgctgatgga aacgcagttt cggttgaacg cgggtcggaa ccgacgagta 240

gtagccggag agagcgtatc gtggagatta gtgataaatg cttttgtgaa agcccttttc 300  
 attttgttct ccaaacaact ccttcttctc ccggtcacca agactectca ctttacatcg 360  
 acggccactt ctccggcgcg accaatactg aggtttgtct caatccccgt ttttta 416

<210> 7633  
 <211> 444  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-069-Q1-E1-A2  
 <400> 7633

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 aatgttttct ttagatctag ctaatatggc gacgattttg ttctttctcg cttctaata 120  
 ccgtagagat ccttccgac tgcaaatccg atccgaattc tcaacgaant tgtagatctg 180  
 atctgtgatt ccatcgttga cgacggatct tcgcttacat cgtttgatct gtcgcagatc 240  
 tgccgttttc tatagatcta gatctgggat cgctcttcgc ggcttcttca catgcaagat 300  
 tctgtgaatt gttcangttg aggcattcatt tctgggatta cnacgacgac gaanctggtg 360  
 cagacngatg tgtgtgtgtn ggagtgaann tgagantagg ggtgtanaag atgtttttgt 420  
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<210> 7634  
 <211> 145  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-069-Q1-E1-A3  
 <400> 7634

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 nnnnnnnnnn nnnnnnnnnn nnnngg 145

<210> 7635  
 <211> 458

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 7635  
  
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 cgttcgctct ctcccgtcgt ctctccgcac taaattgatg ggcacatcat ctgggtccaa 120  
 tcttctctcac caagatgcta cctccacgtc agcaactaca aacatctctt tcgcttgat 180  
 cttcagatcc ccacttgta cgggtctaatt ctggcattgt gcgtgaatca ccagctgaaa 240  
 gtgctagctc tcaagaaact tggccaacct caaaatctat tatgggaagg aagacagata 300  
 gcggaaaagac agggcctgac tctcatgac aacatgtgat ccgccatgtt tccattgctg 360  
 ataaggtatc gctacgggac atagctaaga gagagacttg acatagtcgc tgagaaaatg 420  
 catcgattac cangaaagaa tatccnaag gagttaaa 458

<210> 7636  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 <400> 7636  
  
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 natgtcttca acaacaacag attctacaga attgnaaaat ctgatcaaac tgtttcaaaa 180  
 ttgccaaact catcctcgtc aacattttcc tgcaaaatct tcagctgtat taantttgtc 240  
 tataccaaga acantagaga agacaangaa cgaagctacg cgtaatctta accaagcgat 300  
 ctactactct ctcttctcat cctggggaag tagcattgcc tggaggaaaa agagacntg 360  
 angataaaga tgatntagct actgcgttga gagaagctcg tnaagaaat 409

<210> 7637  
 <211> 366  
 <212> DNA  
 <213> Arabidopsis thaliana



<223> unsure at all n locations  
<223> Clone ID: LIB24-067-Q1-E1-A12

<400> 7637

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caggagaagc aacgctgtct cattctctct gaggaaggac tctcgttctt ctgggaaggt 120  
ttttgctcgg aagccatcgt atgattctga ttcgtcttcc ttagctacca ctgcatctga 180  
gaagctccgt ggccatcaga gtgatagctc ttcattctgcc tctgatcaag tanaatctcg 240  
ggatactgtc tctgacgana ctcaggtgct cggcaatgta nacgttcaga naactganga 300  
agcccaggaa anagnagaca cttggatnaa ngcttctgca ctctnaacat ctggaagcat 360  
angtta 366

<210> 7638  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-067-Q1-E1-A9

<400> 7638

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ggaggaaggc gttgaagtca agtatttctg gggaagcact ctctatcatt tggatgattt 120  
gcccttcaaa attgaagact tgccgtcaaa ttacggagct ttcaaggata aagtccagaa 180  
attggagatt aggaagacta tcgcagcgct tgatcaattg aaaagcttgc cctctcgagg 240  
agacgttgag cttggcgata ttccttctct cctggatctt ggcattagcc ccactcctag 300  
gactagccag gaggggggaaa cccgacaatg gttggaggag aaacagaggc gttgactang 360  
actaanagag ctttgccgcg gattgtcaag ctccgggttt aagcaagggn aaacc 415

<210> 7639  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-067-Q1-E1-B12

<400> 7639

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aacgaggaat ctcgagacaa ttctcaactg gatcgcttcg tcgtacgctt angtcgtcaa 180  
ttcacgcgtc aagcttcaca tgatcctcgc cggaacaata tgcgatttag ttttggtcga 240  
caatcgtctt tagatcccg a ttcgctcgnga gtcttgatgg ttctaacggt ccgcagcttg 300  
ctgtaccggg ataatctcga cgctactatg cagcttctat ttgtggcttg tncagggtgat 360  
gtnggaaggt gtnnaggatc tgnnttgatg aaggtnttgg angttaaaga ggtatcc 417

<210> 7640

<211> 419

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-067-Q1-E1-B3

<400> 7640

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ccggtggctn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntaa aaatgtcaga 180  
cctagatcgg caaatagggc agcttaagcg atgcgaacca ttgagcgaat cggaggtgaa 240  
ggctctttgc ctcaaagcca tggaaattct tgttgaagag agtaatgttc agagagttga 300  
tgccccgtgc actttatgtg gtgacatcca tgggcaagtt ctatgatatg atggagcttt 360  
tcaaaagttg ggggtgattg tcctaanacc aactaatttg tttaatggga gatttgtn 419

<210> 7641

<211> 400

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-067-Q1-E1-C10

<400> 7641

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tctttgggtt tgcttaattc gtgtgtggaa tgtgttttgg gggatggatc tgtggtgggt 120  
 cctgcgaggt ttagagacga tgattgtagg tggggccgga ggaggtttgg ggcacggtgg 180  
 tgggtgttggg ggagggcatg gaggaggcgt cgggattggg attggaattg gaataggtgt 240  
 tggggtaggt ggaggctctg gtcaagggtc cggcancgga agcgggtantg gtggcggcgg 300  
 cggtcgccat taatcaaagc tncctattac caaatcctca anttnaatng tctttgacag 360  
 tactacttct tggcattcta tttctcgtgt attgttttca 400

<210> 7642  
 <211> 425  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-067-Q1-E1-C11  
 <400> 7642

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 tttctggggtt tattgcgaca atgggagctg ancattttat gcctgangaa gttcaataga 180  
 ggtttctttg tgtgtttatg ngtgatnctc tcgcgatctt gcgcatacgc ganctatgtg 240  
 ntntcaagg canangtttg atgtgaaaga agcatttgaa tagggctcaa caaacntcct 300  
 gttaacacna ntcacgaagt ccatgatgga natataagcg accgtattcc tanttcaaga 360  
 gcagcnagct tttgaccaac ccttntcaa nagaccanga nnattcagat gaagcctaag 420  
 ttacc 425

<210> 7643  
 <211> 477  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-067-Q1-E1-C4  
 <400> 7643

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aaaatatcag ccatctccaa attacagagt tctttctcaa acccagggtta tcattttcca 180  
 aagtttgaan gtgtgttctt gtccctgcan agatggcttg gtacttatna atgtgtttat 240  
 actaatcact aaactcnggg attttggctg tataatcaan aatttcattt antaacattg 300  
 tttggccttg aagggggtga tgataaacca aagctcaaaa cgggtgcact cngttgtatt 360  
 gtggcctcaa aggcactggt tacaacaaaa tcttcaaccc acancgggaa gggatattcc 420  
 ncaatcaagt caagctgaaa ccttgcaatg gngggcaaaa tttcagctc tcacccg 477

<210> 7644  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-067-Q1-E1-C6

<400> 7644

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 ttgcagatag ttctgagggc aatggctgct acttcatcta acgtcctttg caatgctagc 180  
 gagtcagatc tttgtcgtga tgattccgct gcattttctac ttaaatttgt agccattgct 240  
 tcgattctct tagctggagc tgctgggtgt aactatacna ctcatggga ngaaccgtcg 300  
 tttcnttcaa actgatggta acctctttgt gactgctaaa agcttttgca gcctgggtgtg 360  
 attcncgcc acgggttttg tcatatgtng gcgggtggca cggaaactt 409

<210> 7645  
 <211> 412  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-067-Q1-E1-C7

<400> 7645

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 aatgtgttgc tcttgaagag ttatatttga gccataatgg tatctccaaa atggaaggct 180

tgagtgcatt ggtcaaccta cgggtattgg acgtgtcgaa caacaagctt acttcagttg 240  
atgacattca ggaacctcac aaagttggaa gatttgtggc ttaatgacaa ccagatagaa 300  
tcactggaag caatcacaga agctgttaca ggatctaaag agaagcttac cactatcnac 360  
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<210> 7646  
<211> 410  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-067-Q1-E1-C9  
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ctatccctac ctatataact agcctcggnc ttggctactc catagccata gctctaggtt 180  
tctcgtttct tatctccaca atcattctct cttcttacat ctgttgccgc gcctcacgcc 240  
tccgctttct tgcctccgcc gcaaacgcaa acgcaaacgc atcgtttaac gaccgtggcg 300  
ttatcgctccc aagaatcana ttcgtagntg gaagacgacg atcttgagtc tggaaacgtc 360  
gtcgttggag gtcntgatca ttcagtcatc aactcttacc ctaaantcca 410

<210> 7647  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-067-Q1-E1-D5  
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tagtctcgag cttcgatttt cagtcttcgc cgttctcaca cggcgccgga gagattctca 180  
tttctccggt agaccaccga gagttatcct cacacggtga cgcgcttgaa ggcgcgtgtg 240  
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ggcgtagatt agcaagactc tgtcgttgtc gccgaagagc tctgggtggca agcgatggat 360  
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<210> 7648  
 <211> 409  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-067-Q1-E1-D6

<400> 7648

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 tgccgtcaan gcaatcaagc cnacagttct gatcgggnaca tcaggtgtan gtcaaacatt 180  
 cactcaagac gtgggtggaaa ccatggcaaa gctaaatgag aaacccatca ttctttctct 240  
 ttcgaaccca acttctcant canaatgtac ggcagaagag gcctatacgt ggagtcaggg 300  
 actggcgatc tttgcaagtg gaagcccatt tgcgccagta gagtatgacg gaaagacgtt 360  
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<210> 7649  
 <211> 421  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-067-Q1-E1-E10

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 aatggnagac actacntgtg actcatancg gacttgggca gaaagatcta gacgtgatgg 360  
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a

421

<210> 7650  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-067-Q1-E1-E11  
  
<400> 7650

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gaaggttctt ctcggagacg attgggtggt taggcatgaa gagaaggatga agctgtatgc 300  
tgataagttt gagaagcttg cgtgggggaa agtgctggat ttactaccgg nagattccaa 360  
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<210> 7651  
<211> 510  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-067-Q1-E1-E7  
  
<400> 7651

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gctgtgggta catccccggc tcaggccacc atggtcgctc cattcacgg cttgaagtca 180  
tccgctgcat tcccggtcac ccgcaagacc aacaaggaca tcacttcac gcaagcaacg 240  
gggggaaaga gtttagctgc atgaaaggt gtggccacca aatttgggaa agaaagaaan 300  
tttgaagaac tctaatacct taacctcccc tgaaccttaa gtgaacgtnc gaatttggnt 360  
taagggnant tnaactaacc ttccctccgc aaacaaagtt nggatccctt ggtgttgaaa 420  
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510

<210> 7652  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-067-Q1-E1-A10  
  
<400> 7652

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cggcgtcggg acttatcaac tcccatcaac ctctcatgtg tctatataag ctttatcttc 180  
attgaatctt cctccgttat ctcaaactct tcaaaatata taaatctcct tttttatgtg 240  
agcttcttca ctgaaagttt tctttgtgac ggaagagtan atcgatgctc tattgggtcc 300  
gatctgactc agatcttggg tgcactctctg tcttcgaacc caaaacaaga aaattcacia 360  
cagtccaaca gctcctcttc tcaaactatc gagcaagact tcatcanctt atca 414

<210> 7653  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-064-Q1-E1-G2  
  
<400> 7653

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ccaaaccaga ccantccga ctcanacaat tgccaataaa cggcttaatc agaaaaccaa 180  
acgaagaacc aaagcttggc tcttttatcc tctcagtacc tgtagtgaac aggcttgtaa 240  
ggaccttcaa cgggtatgct gacatagtca gattggctct tggtgaagctt ggtgagtctt 300  
gcaccangct tgcctangtg aagtgcagct accttctcat ccaagtgttt aggcaaaaaca 360  
tagaccttct tctcatactt cccgcttgac ttctcgcttcn agagctcaag ctg 413

<210> 7654



<211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7654

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gtttggagaa actttggagg tgatggacaa canaaatgat caggatattg atgttagatc 180
agtggttgaa gctgtttccg ccgatctttc ctttgggtgt cccctctatg tggttgagag 240
catgtgcatg cgctgccaaag aaaatggaac aaccagattt ctattgacct taattcctca 300
cttcagaaaag gtcttaatat ctgcatttga atgtccgcat tgcggggaaa ggaataatga 360
agttcagttc gcangcgana ttcaaccccg tggatgcctg ttacaatcta naagg 415
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<210> 7655  
 <211> 417  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-G7

<400> 7655

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aagactttta anactatttg nataaactaa gaanantagt gnaacgtaag aaaaaantca 180
aagaaatagt ttcaaacgct gtgtttctta tttctgaang aaataangat cttggatact 240
ttgtcgctcn cgtctttctt cgattacagt ccacancaac atacaccant aaaatgggtg 300
tttggaccac aangtttcta aaagatttat acgatcttgg nccgagaaaa tttgcggtga 360
tgggagtgat gcctgtggga tgtttgccta nccatcgagc ctcattcggt ggggtat 417
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 <211> 372  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-G8

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 agagctaaac ctgaaatcca aaggccaatg ggatgttcca catccatggc ttaatctctt 180  
 cgtacaaaaa actcaaactt ccaaatttga tgatgggtgtt ttttaagggtta ttatcctaag 240  
 aaatancatc actancgggc ctgttcttgt ttatcctang aatcgcaaca agtaagttta 300  
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<210> 7657  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-G9

<400> 7657

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 caacaattat atttagaaca aattcaccaa aaacccttcc acaaaaaacc tctcttcttc 180  
 aacaatgtcg tctcgaaacc aaagatcaag aatcacctct agtnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnaatg gagcaagaac 300  
 aaacacgaac gtcttcaact cgaaaccaca caagaagcac aacgacgccg tttcttcttc 360  
 aactaaanca gttccttggg ggttctgggn aagntaattt cccggttcaa ggttcgggg 419

<210> 7658  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-064-Q1-E1-H1

<400> 7658

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 atgtacattt ttgagacgta tttggatctg aggcaactca ctgctctcaa gcttccaact 180  
 ctcccgaaaa ccttggttgg tgtaattagc caagagaagt ttgagaaatc acgagcatac 240  
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 gcaattttgt tctttgggat ctgaccttgg ttttggaga tgtctggagc tgttttaccg 360  
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<210> 7659  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-H3  
  
 <400> 7659

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 caggatgttc atgggaaatg atgatacaga gtcggattca tcccatggct atgatgatga 120  
 ggaggagaga aatcgcttaa tgcggaacaa atcttctgtc tcagttgggt ggatgaataa 180  
 ttctcatttt ccaatactca aatccagaca agatattaaa aagagcaaatt ccagaaagaa 240  
 agatatgcag gagaatgaat tgcttgatgg acggagtgcg tacttgaaat atttaggcgt 300  
 atctggagaa cacatctatg cgccaggac agagaagcac tccttcaagt caaaacagaa 360  
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<210> 7660  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> Clone ID: LIB24-064-Q1-E1-H4  
  
 <400> 7660

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 gccccagaga tcatgcaact ccagaagtat gatgcaaagg cagatctctg gagtgttggt 120  
 gctattttat ttcaacttgt gacaggcaga acccctttta caggaaacag ccaaattcag 180

ttgctccaaa acattataag atcaaccgaa ttacatthttc caggggactg tagagattta 240  
agcttggact gcatagacct gtgtcagaag ttactgcgcc gtaatccagt ggaacgtttg 300  
acatttgaag agttctttta tcaccctttc ctttcggaca ggcagtcata tgatttctcc 360  
aggaagtaag attgggggta aagaacaatg ggacgggttt ctttcgtctg gaaacagtcc 420

<210> 7661  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-064-Q1-E1-H5  
  
<400> 7661

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caattcagcg cttctgtctc attgcaaact tcttgtctgg caacaacaag gattagtttc 120  
caaaagccag ctttgatttc caaccatgga aagactaatc tatecttcaa cctccgccgt 180  
tcaatcccat ctgcgcgcct ctctgtttct tgcgcggcaa aacaagagac gatagagaaa 240  
gtgtctgcta tagttaagaa gcaactatca cttacaccgg ataaaaaagt cgttgcagaa 300  
accaaatttg ctgaccttgg agcaagattc tctcgacacg gttgagatag taatgggttt 360  
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<210> 7662  
<211> 400  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-064-Q1-E1-H7  
  
<400> 7662

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gtttgttatt gccttatgag caagcactca caagagagga ttcaacatct ggactttact 180  
atgattgctc tgcgcacatg ctttgggttg gagaacgaac tcgccaaactt gatggtgctc 240  
atgttgagtt tctgagggga atcgctaacc ccctcggaat caangtgagt gataaaatgg 300

tccctagtga actgggtaag ctgatagaga tactaaaccc tcagaacaag cctggaanga 360  
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<210> 7663  
 <211> 384  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-H8

<400> 7663

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 ggccggaacc gaactagcag gggagaacgc gctagaacga tatgactcaa gcgcattcgg 180  
 acaagtggta acaacaaata ggtcagattc tggaaatggg ttaaccgcat ttacttacct 240  
 aagaatgaac aagcggttat ttgaggggtca aaattggcag canttagtgg agtttggtta 300  
 gaacatgaag gaaggtggtc atgggaggag actctcanaa gaaganacan ctggcagtga 360  
 cctttatgtt ggatttgnca aaag 384

<210> 7664  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-065-Q1-E1-A12

<400> 7664

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 caaagaagga taaggttcca ccaccgtcat caaagccggc caaatctgga ggtggaaaac 180  
 agaanaagaa gaagtggagc aagggaaagc aaaaggagaa ngtgaacaac atggtgttgt 240  
 ttgatcaagg cacttatgac aagcttctca ctgaagctcc caagttcaag ctcatcactc 300  
 catcaatcct ctcnaccgt angaagatta atgggtctct tgcgangagg gcgaattagg 360  
 gagctaattg gcaanaaggt ttgattaagg atgggtctct nanactcgag ccangnaggt 420

ttacactccg tgcnaaccaa ccacctaataa aagccgttga cctttccaat ngg 473

<210> 7665  
<211> 432  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-065-Q1-E1-A5  
  
<400> 7665

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gttcctcagg atgcttccag gaatgctcca ccaaatecct cgtatctacg actggaccgt 180  
cgaggtgctt gaggcgacca atctaacttt ttatttcaaa gggccatggc ttagtggaac 240  
ggacatgttg ttcaccgccg atccaaggaa tattcatcac atactaaggc tcaaactttg 300  
ggaattaccc taaaaggacc tgagttcaag aagatctttg atgttttggg agaaaggaat 360  
cttaaccggt gaattttgaa gttgtgggna ggagatnaag gangtcaaaa tcaaggccct 420  
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<210> 7666  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-065-Q1-E1-A7  
  
<400> 7666

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ggacgaggat tcggaggccg tggaggtcgt ggagatcgtg gagggcgtgg acgtggaggc 180  
cgtggtggtc gtcgtggagg gcgtgccagt gaagaagaga aatgggttcc agtgaccaag 240  
cttggtcgtc tcgtggcggc tggatcatatc aagcagatag agcagatcta tcttcattca 300  
ctcccggtta aggagtacaa gatcattgat atgctcatcg gtccacattg aaggatgaag 360  
taatgaaaat catgccngtt caagaacaa aaccaagggc tggatcaaaag gactagatcn 420

aaggcctttg gttgtcnttt gga

443

<210> 7667  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-065-Q1-E1-B4  
  
<400> 7667

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agaaggtaaa gaaatcgac ganactcttc ttcggatgat gaagatgacg tttcctctga 180  
aaacccatca cttttgaaga cgactctcga cgccgtttcc gattccgaat ctgggttcgga 240  
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ctgtgggatg tnaagagggc tnagaaagg gaaaannncc gagaaatctg gggggtaaac 360  
gttctccttg aaagtgggat tgaaagcang cagttgtcna atgggatggg ngnaggangg 420  
gtnaggaang gggtcaaggg ggaaagangg acgaa 455

<210> 7668  
<211> 390  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-064-Q1-E1-G12  
  
<400> 7668

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cctcggagct gttgatcgga accgttgtct ctacgatggc cctgcactcc aaagagccat 180  
ctacagatac aatgcttatt ggcttccctt gcttgtcaa tacaccgagt cttcttctat 240  
ctgtcaagga ccattagtcc ctctcttga ctgtgaatgg gtttggcatt gccacaggct 300  
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ctggcgntgg aacctccgt taaaatngga 390

<210> 7669  
 <211> 284  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> Clone ID: LIB24-064-Q1-E1-D7

<400> 7669

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 attctttaca tcatatattc tttatgtttt tgtccccctc aagatcttgt aggaggagag 180  
 gctttgggtt caacttccat tgtttgatca aatctatttc tgttgataa aactatattg 240  
 atattttgtc ttttcacttt tctcataaaa aaaaaaaaaa aagg 284

<210> 7670  
 <211> 416  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-D9

<400> 7670

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 cctgattatt ccttcttcat cgcctcttcc tcaacgatgg cttcgacttc ttctttggga 180  
 ccttctacac tactctctta cggttctcct tctcgtcagt ttcttgattt tgggttcaga 240  
 ttgatttcgg gtcacgaaag tgttcgaatt ccatcattcc ggcgatttcg ggttcactgc 300  
 gagtcaaagg aaaaagaagt gaagccgtct tctccatttc ttgaaagctc ctcgttttcg 360  
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<210> 7671  
 <211> 401  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-E11



<400> 7671

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tttcttttan cctcttatcg ctaatctgga gctctataga gactataaag ggtttttgat 180  
tgattcgga gcnegagatt tgacttcttt natctgattc ggnangtttg tatchanaaa 240  
ggatcgattg gtgagggtcaa tantggttgg tgggttttan taatggaaga cggtgagctt 300  
gatttctcca atcaggaagt gtttctgagt tgggagatgg gtgaattanc acctancant 360  
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<210> 7672

<211> 470

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-064-Q1-E1-E2

<400> 7672

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt caccaacacc 180  
aaccctctcg cctctccaaa ccacccttc ttcaccggac ccaccgccgt cgcgccgcca 240  
aacaacatcc atctctatca agcagctcct ccgcagcagc cacaacatc tccagttcct 300  
cctcatccat ctatttccca ccttccttac tctgacatga tttgcacggc gattgcagcg 360  
ttaaacgaac caagatgggt caagcaagca agctatttcg aggtacatag agagaattta 420  
cactgggatt cctactgntc atgggagctt tgttgacaca ccantcaaa 470

<210> 7673

<211> 474

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-064-Q1-E1-E3

<400> 7673

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncctaaggt ttctaatttc 180  
gtcagagcaa gttccggaat cccaatttg gtcgcctgta gtccgacaga gattatcatc 240  
cccagagtta ataacgccg actcagaatc gaggagatag tagacgccgc gaaaggcaaa 300  
attcgtcttg attcatggat ctcttctcgt atcaatggcg ttagccgagc tcgtgtacag 360  
tcgagtatac gattgggact cgttaccgtc aatggctcgtg tcgttgataa ggtttcacac 420  
aatgtcaaat ctgggtgatga ggtaattgt acgatatcag agcttcaanc ttg 474

<210> 7674  
<211> 417  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-064-Q1-E1-E5  
<400> 7674

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tggcgatcgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnntaggggt tcttacacga tatgagctaa atacgatttt gatttcaccc 240  
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ccagtcatga ttcatttagg ggttctcctc gtagaaactc catcctctct gcttctaaca 360  
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<210> 7675  
<211> 409  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-064-Q1-E1-E8  
<400> 7675

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 gcccttgata ttcgacgtct aaatccagca gcaattcaga acattgatga tgctgagaga 180  
 agtgtaacta gcgcaatggt tgctctcaca aagaagctaa cggagtccga gttcagacct 240  
 ctctttatta ggagtattga ttgggcagag tcagatgttg ttgacggatc agggagtga 300  
 aacaagagca tcgaccgagc tatacttttc tatgggtctgg tggatcgact ctgtgagagt 360  
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<210> 7676  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-E9  
 <400> 7676

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 ttcagagacg gaccttctct tctgacagat cgacgacttc taccggaatt cgcttcgctg 180  
 gttataagag cttagccacc accgggccac tctactgttc tggttctgaa gccatgggag 240  
 cgacgcttgc tcgtgctgat aacgggatcc agagcgttat gaagtttctc ttctgtcaaa 300  
 ngctcgatcg gtcagagctc aagcctcatc tgatggagat gaanaagaag ctatacctct 360  
 gagatctgaa gggaaaaagc tctgggaaca agntttgcct tttgtttggg gttnc 415

<210> 7677  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-064-Q1-E1-F1  
 <400> 7677

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 aaagccagaa tctccgtcaa ccaccaccac ctctcagttg attcttctcc tgagactcat 180

catcatcaaa atggcttttc atcggcagcc gccatocacc caaaccgga caaaaccatc 240  
acagtggcca cctttaacgc tgctatgttc tccatggctc ccgccgtccc tagcaacaag 300  
ggcttgccat tccgggccaa gtctacggtt gaccgccccca agagcattct caagcccatg 360  
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nc 422

<210> 7678  
<211> 391  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-064-Q1-E1-F12

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aatggtaaga cagtgaagaa tgtctgggta cgtgggtggt gtcgtttctg atccatggct 180  
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gaatcagaat ggaaagggtca ctattgaaga tctccctcct ctatttgcaa agctgaaggc 300  
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gtgaatctga tgaggaagag agacagaagg aagcaaggag gaagctgaag agtgaacaaa 360  
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ccgggaagat ctcaggactc tctcttggtt tccatggatt tcatattcac tcttttggtg 180  
ataccacaaa tggctgcatc tctactggac ctcaattcaa tccattaaat cgagttcacg 240  
ggccaccgaa cgaggaagag cgtcatgctg gcgatttggg taacattctt gcaggatcaa 300  
acggtgttgc tgaaatctta atcaaagaca aacatatacc gcttagtggg cagtattcca 360  
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 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7682

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aggatcaaag angaatcgct ttgatcggtc ttggacagtc tgtttccgtc tccgggtggc  360
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<223> unsure at all n locations  
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<400> 7683

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tattgctcat gtcgaccacg ggaaatccac tcttactgat tctttgggtg ctgctgctgg  180
tatcattgcc caagagggtg ctggtgatgt tcgtatgact gatacnagag ctgatgaggc  240
tgaacgtggg ancactatca acgtccactg gtatttctct ctactacgag atgactgatg  300
aatccttgan gagtttcact gganccagag acngaaacga gtacctcatc aatcttattg  360
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<212> DNA  
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 ccggtaaaat acccgcgatc atcgtgtttg gcgactcttc cgttgatgcc gggaacaaca 180  
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<210> 7685  
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 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 atgagtcggg aaagtatttc ttcagatatg atgtatttgt agcttggggt ttttcccctt 240  
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<210> 7686  
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 <212> DNA  
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<210> 7687  
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<223> unsure at all n locations  
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 acacacaaac cctacttcat tcttcatca tegtctccaa tcattaccca aagatccgtc 180  
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 agaatggagt tatgaccgtt gatcatctcc acaggtttct gatcgatgtt caagaaacaa 360  
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<223> unsure at all n locations  
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tcttaaggct gctgaagtta ttttgtctca attcgatctc ctccgtcagg cagagactaa 180  
agtactcaag gggccacatg aggacctgga aagttatctg gatgcaattg ctcaactcag 240  
aaagattatt cgttatttta tgagcaacaa aagctttaag agtagtgatg gagttctcaa 300  
ccacgcaa at agtttgcttg ctaaagcaca gtcaaagctg gaggaagagt ttaagcagtt 360  
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<210> 7689

<211> 391

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-064-Q1-E1-B7

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<210> 7690

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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 tgtctctgct gttaataatc tgacgaaaga cgcaaaaaga aagtgggaga cattttccat 240  
 gcaagctgag aatgaagcca gagaaggtgc tgattttctcg gctgcaaaac attgtcgaat 300  
 ggagttactg cttcagcaat ctgtgggtca tgcggaatca gctttcaaac actgcaagat 360  
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 ccgcgacgct cttttctctc tggaaactgga atcgccctgat ccggacgaag gaggtgtagc 180  
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 gggaacgaac gaagctgaag ctgaagacga cgatcccgaa gaggaagatc tcaattctcc 300  
 gtctacatca tcaactccca tggtttctac gatctcagcg actgctgttg tttccgggac 360  
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<210> 7692  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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atctgtgttt gtgaaccatc tgggtttgtg gaaagttcgt anctttcgag gatttatcta 180  
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 ccaaaactca gtttcaggaa tgtagagaac agattttatg gtgagaagaa caacaacaat 300  
 ggtttgtgta aacgttttgg atcagatttg ggctccaaga agtttaggaa tcaaaagttc 360  
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 <212> DNA  
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 <223> unsure at all n locations  
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 gagttgctcg atacgctttc ttccaaactt aacgaggcaa tatctgtcaa ngaaacacan 360  
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 <212> DNA  
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 gttgcagagg cttgttcaga aacatggtcc gaggaactgg tctttgatta gcaaatcaat 240

ccctggacgt tccggcaaat cttgtcgtct ccggtggtgt aaccagctat ctccggaggt 300  
agagcacggt gctttttcgc aggaagaaga cgagacgatt attcgagctc acgctcgggt 360  
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<212> DNA  
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tagatggcat ccggagatac caccagtagc anaggtcaag gctggtgagt tttccgggt 180  
agaaatgatt gatgcaatgg gaggtgttat cananacaat gactctgcaa gcgatatcaa 240  
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<211> 416  
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<213> Arabidopsis thaliana  
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agcttgactc tcattattac aaaagcaatg gtaagcatca agttcatcac acgcccgtct 360

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<210> 7698  
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<212> DNA  
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<400> 7700

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<213> Arabidopsis thaliana

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<210> 7703  
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<212> DNA  
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 cgtagaactc gaaactggag aattagaagt tcgctcggaag ataatgtagc aatttcgagt 180  
 gacggcggag atttgaagaa ttctctgtcc ggtattgtgg gaaatcaagt ggaggagcta 240  
 ttgagcagag aagagaacaa aggtttgctt gatggctctgg aaaaagcttc gttgagagtg 300  
 gagattgcca agagagagct cgaagatata gagagacaag aaattgaggc gaaattgcta 360  
 caggattata ttaatcagct cgaatcaaga gccgcagaga ttgcagaatg ccagcangag 420  
 attgacgcag caagatnaat gggttgagga agcagaacgc tccctt 466

<210> 7704  
 <211> 485  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-F5  
  
 <400> 7704  
  
 aaacttctcc gccgntcggg aanggtccan aaattcccgg gtcgaccac gcgtccggtg 60  
 cgaatttcga acggagctac gattccatgg cgaccaacgg agagaaggtc acggctacgg 120  
 tggatgaatgg cggagggcta tctactggtg aaaaccctaa gaaaattgta gacctcaaca 180  
 ctacggagtt agatcgtact gacgacattc tcgacggaga agtcaaggga ttttcagatt 240  
 ctggtgaaaa gaaggaagaa accgactcta atggtattgg atcgacggct ggtgttgatt 300  
 ctggggatat ctctccggtc gatgatatcc agaagaagat tcgacgtgct gagagggttg 360  
 gtgtttcggg gaaattgacc gaagaggaga agcgcaattc tcgtgctgag aggtttggta 420  
 ctgtagctgc ancagtgggtg aatggctcaa anggaacgaa gaaagcaaaa gaaattaaan 480  
 caaaa 485



<210> 7705  
 <211> 462  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-G3

<400> 7705

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ttcaagggtc naccacgcg tccgaccacg cgtccgaatc tttttagtga gagagaaatc   60
ttagagctga gctaagaaaa atgtcaaaag aagtgagtga agaaggaaga catggcaaag  120
actacgtgga tccacctcca gtcctacttc tagacatggc tgagcttaag ctctggtctt  180
tttacagagc tatcatcgca gagttcatcg ccactctcct ctctctctat gtaaccgtag  240
ctacagtcac tggccacaag aaccaaaccg gtccttgtgg cgggtgttgg ttactcggca  300
ttgcgtgggc ctttgggtgg atgatctttg tcctcgtcta ttgcaccgcc ggtatctccg  360
gaggtcacat taaccagct gtgacatttg gtctgttctt ggctcgtaaa gtgtcgctcc  420
ctagagcagt tgcttacatg ggtgggcca tgtcctggga cc                        462

```

<210> 7706  
 <211> 458  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-G4

<400> 7706

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tcnaccacc cgtccgacca cgcntccgga gccatcaaca gtcgttggcg aatcgcatcc   60
aatggatgtc gaggagccac ttgagcagaa gacatctgtt ggaggtgggg atgacagcaa  120
tgctgcaaac gcagatatga tcaaagaaaa taatattatc gatgcaggcg actcagaaaa  180
gttgaattta gatagaagtt ctggtgatga gtctatggag gatgagccgg agacaaagca  240
atccgagtc attacatctg atgataagag tgcaaaaatt gaaatgcttt ctaaggagga  300
aagccgtgct gatatggatg cggggaaaagg gaaatccct gaaaataaaa gtcacccact  360
ggtggcttct gacaaaagaa agcttcctgc taatgatcaa gaagctgttg gaaacaatga  420
acctgcaaag ancgccgat ggnactccta ataataatt                        458

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<210> 7707  
 <211> 436  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-H1

<400> 7707

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accttttcta cgaaaactca aagaaacaat ggcnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
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ttcgacctct ctccaaagaa gtagctttcc tcaagatttt cggtttggtg cagcttcgag 180
tgcttatcag agtgaaggag cagccaacgt tgatggaaga gaaccaagca tatgggatac 240
gtttactaaa caatatccag aaaagatttc agatggtagc aatggcgacg ttgcagacga 300
attttattac cgtttcaagg aggacgtggc acatatgaaa gaaatagggc tggactcatt 360
taggttttcg atttcttggg tccagaatac tacctcgang tacggttgcc ggangagtaa 420
atcaaggaag gaatta 436
```

<210> 7708  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-H10

<400> 7708

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gtacatgttg caaanaccaa cataattggc aaggttctac ctactctgat tggggacaat 60
gtaacagtag gtcacagtgc tgtcattcat ggggtgtactg ttgaggatga tgcttttgtt 120
ggatatgggag caacactact tgatgggtgtg gtgggttgaga aacatgccat ggttgctgct 180
ggttctcttg tgaaacagaa cagcgaatc ccttctggag aggtgtgggg aggaaatcca 240
gcaaagttca tganaaagtt aacanatgaa gagatagtat acatctcaca gtcagcaaag 300
aattacatca atctcgaca gattcacgcc tcaagagaat tcanagtcac ttgagcagat 360
cgaggttgan agagcgctta ggaagaagta tgcacgcaag ggacgangat t 411
```

<210> 7709  
 <211> 478

<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-H2

<400> 7709

ntgttaaact gctccgccgg tctgtaaagg tcanaaggtc gacgggcccg tcngatgaca 60  
tagagatttg ttttgagagt gganataagg cgggtggaaac tagccaggga actcaccttg 120  
tttatgttca tgctggaanc aatccctttg aagttatcag acaatccgta aaggctgtgg 180  
agagacacat gcagacattt catcatcgtg agaagaagaa gcttccttct ttcctanact 240  
ggtttggtg gtgcacatgg gacgctttct acacagatgt gactgccgan ggtgttgatg 300  
aaggccttaa aagtctttct gaangaggta cccctccgaa gtttctgac atanncgatg 360  
gttggaaca aatannagca catagaaaga tgaaaactgc gttgttcagg aatgaacaca 420  
gtttgctact angettgttg gtatcaagga gaatgcanag tttcaggaag agttgatn 478

<210> 7710  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-H5

<400> 7710

tgtnaaggtc caaaaattcc cgggtcnacc cacgcgtccg ntttgacaca ggaaataaca 60  
ataatctaga aacaaagata aaaagtaatt atcgcccta tggtagggac tttaaattca 120  
gagttgcaac tggtagattc agcaatggaa tggttgcttc cgattattta gccaaataca 180  
tgaggagtaaa agaaattgtn ccggcatatt tagacccgaa aatacaacca tgacgatctt 240  
cttacgggag tatcttttgc atcgggtggg gctggctaca atcctactac atccgaagca 300  
gcgaatgcaa tccaatgct ggaccaactg acatatttcc angactatat anagaaagta 360  
natagggttaa gtaagacaag agaagagcca ntataagttg gcaggtttag angaagacca 420  
atcagcta atccaaagga gtggcaattg tcgtcggggg aagcaatgat ctgatca 477

<210> 7711  
<211> 487

<212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-H6

<400> 7711

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cagccgnccg gtaacggtcc anaaattccc gggtcgaccc acgcgtccga ttttcgccgc   60
gtggattgat atgacgactc tctttcgccg gaagtcaatc ggaatccgcg acaacttctt  120
ccttcaatcc ctttgatttt ttttttggtt ctacttatcc caaaccttc aaatcttcag  180
gtccaatctc ttcttctatt tgttttttaa ttaaaaaaat ccggcgaaag gtgaagctct  240
tggattcgag tgggtggctag taatcgattt cggtagttta gaagtagttt ataggtttta  300
tcagctttcg atttgatgga gccgcgagtc ggaaacaagt ttcggctcgg aaggaagatc  360
ggcgggtggat cattcggaga gatctatctt ggtaccaata tccagacgaa tgaagaagtg  420
gctattaaac ttgaaaatgt gaaaaactaa agcatcctca attgctggta agaatcaaag  480
ttgtaca                                           487

```

<210> 7712  
 <211> 449  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-H8

<400> 7712

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tccgnccacg cgtccggaga tcgagaaagg agaacantgg gtcaagagag tagaaaggaa   60
atgaatctat acgcgcacga tctttctctt ctcgatttca attacaacgt ctccggtccc  120
ttcggcgagc cactatctca ncgcttcctc tctcctggcc ctttcttcca aaggngaaga  180
agacgattan cgccgttata cgagctacag tcacgacgga gctaattgga cgaaaaacgg  240
gcacagattc aagagcatct ccgccgnatc gccacgacgg gaaggtctcc gttacctctg  300
ggaatggatt ggagttctcc tcctcgatcat ttggnangaa gggacacggt ttgggccaca  360
tgatcatcga actgggttgg agttactgtg tcaactgtccc ttcttgggtt gaccttccca  420
agtcaangcg tttcagattc tggccgggt                                           449

```

<210> 7713  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-063-Q1-E1-A10  
  
 <400> 7713  
  
 acgcntccgc ncgctttttt ccccatTTtca actttttttt ttcctctcca gtgcactagg 60  
 aaacaaaaaa aaccaagat ctatagtTCg atcggnTCga gagaagctcg aaaatggcgc 120  
 tggcgTTCga tgagtTCggg cntccgttca ttatactgag agagcaagat cannagacnc 180  
 gtcttanagg aatcgatgct cagaaagcca atatcgccgc tggtaaagcc gtggctcggg 240  
 tncttcgac cTctcttTga cccaaaggaa tggctaanat gcttcaaggg acctgacggg 300  
 agacatcanc atcaciaacg atggtgctac gatattgggc gcaaaatgga tgttgacaac 360  
 cangattgCG aagantaaat gggTgggaan tgTcagcggg gncagggatt 410

<210> 7714  
 <211> 445  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-E6  
  
 <400> 7714  
  
 acgcgTccgc tcaattcgTt tagttcatct ttggaagatt ctcttccgat taagtTttgg 60  
 tttttgttac aggagaggat tatcaaacca ttacataggg aaatcgaaat cgtttgggaa 120  
 tttaatggaa gcgagtaaca caaacgattt ggtgaaagtg gagagtccat tgaacaagag 180  
 aagaagattg cttattgcta ataagctaag aagaagatcg tccttgtctt ctttcagcat 240  
 ctacactaaa attaaccta attctatgcc gttgcttgca ttgcaagaat cnnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaactag 360  
 taagctgaaa gagaagagga tgaagatgac gaaccataga gatTTtatgg ttcctcaaga 420  
 ctaaagagct gttttaacnt aacta 445

<210> 7715  
 <211> 405

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-C11  
  
 <400> 7715  
  
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 gtgggtggtga cattttcnct aaanagaaag tctccgatat gtcgnanaga tggagtanaa 120  
 agaagagtag acttccanta gcgggtctcc tctttattct cgttgtcacc tttatgattc 180  
 tcttcaacga gcgtagcatt cagcagatcc atcaccacgc cgcgagtcac actcaaaatc 240  
 tccgagaacc ttccacgttc gatttcgtca agcctaattg tcctcggatt aactacttgg 300  
 gagctcatga ggttttggat agattcagca aatgcaactc gacgaaagag tacatgtggg 360  
 aataaaatcg gatggggtga cccgtttgaa agaccacnec ggtca 405

<210> 7716  
 <211> 479  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-C3  
  
 <400> 7716  
  
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 gcagaggcgg gttgagccac agccgcagag agcccaagat agaccgagat acaatgacag 120  
 aactcgttac tctcgccgca gagaaaacac aagatgaact gtaactgaag atggtatata 180  
 tacacctaag ctaagccagt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nccgccacac gagggctctg tattccagtc cgttgcagtt aatggaccgg 300  
 gcttactttg gatattgttg aaattctaag ttttgtttct atgtaacaat tttatttaat 360  
 aatgtaaatt gaggtttcac tgttttagga aattactttg ggtagaagat tagttttctt 420  
 ttcaagaaca attcatgttg gaaatggtaa atttaattta agtaatcctt taagaaaaa 479

<210> 7717  
 <211> 476  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-C4

<400> 7717

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tgagagagaa atgaacaccg gcggtggcca atacacggat tttccggcgg tggaaactca 120  
cggaggacag ttcataagtt acgatatctt cggtagttta ttcgagatca catctaagta 180  
tcgtcctccg attataccaa ttggtcgtgg agcttaaggg atcgtttgct ctgtgttggn 240  
tacggagacg aacgagctag tagcgatgaa taagatagct aatgcttttg ataatcatat 300  
ggatgctaag cgtacgcttc gtgaagatca agcttcttcg tcatcttgat catgaaaaca 360  
ttatagctat aagagatggt gttccaccac cactaataag acagttcagt gatgtttata 420  
tctctactga attaatggat actgatcgca tcaaatacgc agatttaacc aggggt 476

<210> 7718  
<211> 433  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-C5

<400> 7718

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agtctccggc tgaaaagttc ngggtanccc ttggcgaagg gatcaatccc ctccccaaag 120  
ctttcccnaa nnancacaaa accatccaag ttctaaccgg cgatggcaac gtcctggct 180  
ccantcncct caatacntaa ggagaaggnt ttccactggt gaagatatcg gcggagagga 240  
tcgaagcagt ggatttggag aacaaaagca tgtcgtacag catcattggc ggagaaatgt 300  
tggagtacta caaaccttc aaaggaacca tcaccgttat ccctaaggat ggtggtagcc 360  
ttctgaaatg gtctggtgag tttgagaaga acgcccata gattatgatt cacatgtcaa 420  
caaaggactt tgc 433

<210> 7719  
<211> 441  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-C9

<400> 7719

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 ccaccattcc cagacactga cacaccaact atgagatctg ctctgtacca tatcaaactat 120  
 aaatctaaga cacaaaccca tcttcgtatc cttaatctca ccaggaggag aagattactg 180  
 aaggaacaga aggagatgga gatgaggaac ttgaagcttt tcgtagagaa tcaaagcatc 240  
 atacgagaga atgaagcttt aaaaaagaaa gctcttcttc tccaccatga aaacaatgct 300  
 ctgtttgctc tgettcaccc aaaatactcc cctgtttcaa cctcnnnnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnaatgg 420  
 tactaaaata aaatcaaact a 441

<210> 7720  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-D12

<400> 7720

ctctgccaca cccgatctga aattctccag ttttgagtta cgtagacctt tacaagtctt 60  
 agtattgagt atcactgttt attgtttaga gtttatgtgt tttgaatgga tttatctgct 120  
 tctgtcgcca aaaagcttta gcctttatct tttagacatg gagttctcca tggtttcgta 180  
 tgtaagaat tatgagttta ggccaaaatt ttttacattt ttcttagaat tcaactgcagg 240  
 actgttatgg tcatggcgat ggaaaccttg agagaaaggt tctaccaagt atggtcctga 300  
 tgggtgtttac tatgaangat ccactcctaa aacgggtcaaa gtgaacgaca ctaagtttgg 360  
 gagactatgc ttgaaagttc caaagttatc atccttccat aagaaaatgt g 411

<210> 7721  
 <211> 483  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations



<223> Clone ID: LIB24-062-Q1-E1-D2

<400> 7721

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aagagagagg gattaaaccg tcgaaagtaa catacacgat acttatcgac acatttgctc 180  
gttcgggataa catggagaaa gcaattcagc ttcgactatc aatggaggaa ctaggattag 240  
tcccggatgt tcatacctat agtgtattga ttcattgggt ttgcatcaaa ngtcaaatga 300  
atgaagcatc naggcctttt aagtcnatgg tcgaaaagaa ttgtgaaccg aacgaggtta 360  
tatacaatac gatgattctt gggtattgta aggaaggtag ttcttatagn agcattgaag 420  
ttgcntaagg agatggaaga gaaanagttg gcccaaagt tgctagctac ngatatataa 480  
ttg 483

<210> 7722

<211> 480

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-062-Q1-E1-D7

<400> 7722

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gaaaatcata atccactttt atgtgatcga gaaagagatt ctaagcccag naaacaccaa 120  
aaccttccat ttctattggt tcccattttt ttttctttgt agctcgaatt ctctgctgcc 180  
actactcgta agtgaaattg gagtttttaa tagatctttg gttgcttctg tagtctcaga 240  
atggcagctt atgtttctcc ctgtttaact cctccggatt ctccgggtact cactgttctt 300  
agaaagagtg tgttacctga tcatcatcta ggcaagaggg ttggttgctt aagaatgagt 360  
gaagggtacta ctaaaagata tcgtgttggt gcttctcata agtacgagtc ttcgtcaatc 420  
agaaactctt tgaattctca tagtacaagc catttccaaa gccaaagacc ttctgaaac 480

<210> 7723

<211> 428

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-D9

<400> . 7723

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cgtccgaaaa catatacttt tccgacaaaa catggaagat gttaatcagg agaagaagaa 120  
agtacctcca atgtctgaac cagaaagatc cacaccgatt aaggtaacaa tatcaagaat 180  
ctttatctta aacttgaacc aacttttttg aacatcaaca ctacaccatg ttcttgantt 240  
tagnttattg aaatcttgat aagtcnaatc ttgtgtttta natgtttttt ttaagtngtt 300  
taagagctat gtcccctcga gtccaccttc nggtgagcac aaggctttgc ntttttggtg 360  
cagactacag gaggacagta tcgtttctgc aantcatgtg ttganggaag tagttgcagg 420  
ccagtgnng 428

<210> 7724  
<211> 436  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-E1

<400> 7724

aaccaaacca accaacccca angccaaaca aagttttata gagaccttcc atttctccct 60  
ctcgtgacaa acgcaatttn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
tttgagatta ctttgtatcg atttagctat tcgagaaact cttgccgttt gaaagtttta 180  
attgttaaag atgtcgagtt ctatggaatg ttctgagttc gtcggtagcc ggagatttac 240  
tggaagaag cctagcttct cacagacgtg tagtcgattg agtcagtatc taaaagagaa 300  
cggtagcttt ggagatctga gcttaggaat ggcatgcaag cctgatgtca atggaacttt 360  
aggcaactca cgtcagccga caacaaccat gagttttatc ctttgtgaag cntcnaacat 420  
gggttccaag ggtcaa 436

<210> 7725  
<211> 459  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-E10

<400> 7725

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gatcgaatta gataatgcca ctccaaaaaa cgttacttta ccttacctat ctgcgtgacg 120  
tcagatccca ccgttagagc ttacacttgt aacgccgttt cctgcatttt ccacaagcaa 180  
ggtaaaaaaa agctttgtgc agaganagag agaagaagaa aaatgggttt gcntacganc 240  
aanattgaga gagaagagct aangccaggg agatcacatc tagtacttac agagcaatct 300  
tcgcttattc tcaccacgga atctttgtcg gtgggtccaa agttgttcat ttcagacctg 360  
nacacaaccc cangggnttc agcaanatca tcaatatcan catcttcttc tgnagatata 420  
tgttccatat ctcttgagnt gcggtttcag acaaccggg 459

<210> 7726  
<211> 468  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-E12

<400> 7726

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atgaacctcg agatctgtga tatgtcaat agcgatccag cgcaagcaaa agatgtttgtg 180  
aaaggcatta aaaaacggat tgggtancagg aatccaaaag ctcagcttct tgccttaact 240  
ctgcttgaga caatagtga gaactgtggt gacatgggtc atatgcatgt ggctgagaaa 300  
ggtgttattc atgagatggt ccggtagatt aagaagaagc cggacttcca tgtcaaagag 360  
aagattctgg tccttatcga tacatggcaa gaggcctttg gtggccctan ggcaagatat 420  
ccaccaacaa taacagtcca tatgtcaaaa atgccccaaa caaggtca 468

<210> 7727  
<211> 492  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-E2

<400> 7727

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ttaccctgnc cgtagccgtc caaaaattca aggggtccgac cnacncgtcc ggtttttttc 60
ctagagacct ctgctgcaat ggcggggatc ataagcccta gccctacggc tctttatttc 120
accagtaatg tcggtgggag gcgactgaaa gcagtgagct gggcgggaaa gagtgtctcc 180
gggaacgtta tccgccggag aagcttgaga attgctgctg agctgaaatt cgtgaatgca 240
gaagaagcaa aacagttaat anctgaagaa ggttactcgg tgggtggatgt aagagacaag 300
actcaattcg agagagctca tataaaatct tgctcccata ttcctctctt catttacaac 360
gaagacaacg atattggcac gatcataaag aggacagtgc acaacaattt ctcagggctc 420
ttctttgggt tacctttcac gaaagtgaat ccgggaattt cttaaactctg ttagaaaacc 480
agttttctca ag 492

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<210> 7728  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-E5

<400> 7728

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agcatacaat acaatgtcta ctcttgtttt attcctccaa cttttttcca tcctaccatt 120
agcacttggg ttgaaccacc caaattgtga cctgaccaag actcaagacc aaggctctac 180
cctaagaatc ttccacatag acagcccttg ctcccccttc aaatcatcat cccactctc 240
atgggaagcg cgtgtgctcc agacgctggc tcaagaccag gcccgctctc agtacctgag 300
cagcctcgtc gccgggagat ctgtagtccc cattgctca gggcgtcaaa tgttgcaaag 360
cactacatac attgtcaagg ctttgatcgg tactccggct cagccgctgc tcctagccat 420
ggacacgagc agtgacgtgg cttggattcc ttgctccggc tgcgttggct gtccttctaa 480
caagggcttt t 491

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<210> 7729  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-C10

<400> 7729

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atgangctga taaagacggc taagtacatt gccacaccgg gaaagggcat tttggcagca 120
gacgagagca cgggaactat tgggaaacga ttcgccagca tcaatgttga gaacattgag 180
tccaaccgcc aagctctccg tgagctctc ttcacgtccc ctggcacttt cccttgccctc 240
tccggtgtta tcctcttcga ggaaaccctc taccaanaaa accacggatg gcaaaccctt 300
cgttgagctc ctcatggaaa acggagttat ccctggaatc aaagtggaca aggggtgtgg 360
tgatctagca ngaaccaatg gcgagaccac tactcaaggt ctagattcac 410
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<210> 7730  
 <211> 404  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-061-Q1-E1-G10

<400> 7730

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acgcgtgggc aaacaccaac gataaacctc atccaaaata ctctgacgtt aagcctgctg 60
gacatttggt gcagccaact gcccttctg aagttgtgga aagacctaag ctgaacctgc 120
ttcctcggac aaaaccactt gaaagtgtgg agaaacctgt gaatgacgaa aaactggaaa 180
atagtgttcc agtccttata caacgtgaaa atgcgacaca gaaaagtttc aacaattcaa 240
aatctggttt gtctacagat gagattccta accagccggc tgagcggccc aagttgaatc 300
tgaagcctgt ggcacagttg cttgagcagc cagaagttaa aactgaaaag gacagaagtg 360
cggtttttgg tggtgccaag accacgagaa ctggtgttga angg 404
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<210> 7731  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-061-Q1-E1-G12

<400> 7731

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tctagattcg attccgattc naaagaacta gtctccggcg tgtaatctct gatcgttgaa 120  
gatccaagct acgccgcac ttactcgccg gcggcttgaa tcatggctga taggagaaac 180  
aggtgtaacc agatcctcct tttagcatac cagagttttg gcttagtggt tggagatttg 240  
agtattttct ctctctatgt gtataaatgt acattctacg gaggattgag acatcaccaan 300  
acagaagata cgatatttgg cgcgttttct ttgatatttt ggaccancac tctcctttca 360  
ctcatcaagt acatggtttt tgtgtnaagt tgcagatgac aatggcggaa gggag 415

<210> 7732  
<211> 443  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-061-Q1-E1-G5

<400> 7732

acgccggncc gtaacgtgtc cananattcc cgggtcnacc cacgcgtccg gcaatactac 60  
aaatggatcc tctgttttat cctcactctc tatttttttg cttccttctt tgtcgaccat 120  
gatcaagatc atagatcttc tacttccata tcaaagcacc ttcttactaa ccataaacct 180  
aagcttttgc cttctcgtgc catgtttgaa tctaaaatcc atgatcacia acttgggttt 240  
acctctcaac aacctaacat caanacagac gtattcaaca atttgaaaat ctacgtctat 300  
gacttacctt caaagttcaa nanagactgg ttagccaagg atagatgcac caaccacctc 360  
tttgccgcgg aagtggctct ccaanaaggc gtttctcagc ctccaaggan atgtanggac 420  
ggaagatccg tatgaagccg tnt 443

<210> 7733  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-062-Q1-E1-A1

<400> 7733

acgcgtccgc acacacacac ataaancacg ngaaacagaa tatctttgag atctcctctt 60  
tatttgagaga agacaaaaca canaacaaga attanaaaga anggagagan ngcaaaaatg 120  
gnactaagaa tgtgggcttc ttctacagca aacgctctca agctttcttc ttctgtttcc 180  
aagtctcatc tctctccttt ctccttctct agatgcttct ccacagtttt ggagggtttg 240  
aantatgcaa attcacatga ntgggttaaa catgaaggct ctgttgccac cattggcatc 300  
actgcccattg ctcaggacca tttaggtgaa ntgggtgtttg ttgaactgcc agaggacaat 360  
acttcagtga gcaaangaga aaagcttttg ancantgggn taaatgtgna agccaaaang 420  
tnanattttt ancaancaac cccaggggaa acccattttt g 461

<210> 7734

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-062-Q1-E1-A11

<400> 7734

acgcgtccgc tctgttcgtc gtttggtttt ccggtggaga aaaatggtga tggaaattgt 60  
gaaaccaaac acatgcatta gaggatgttg caccaagtga atcgatccct cttcatctcc 120  
cttcttcttc cttcactctt ctctcccaa tcgctaaagg atcagagagt gttgtttatg 180  
aagcgattct cgatggccga agagtagcag cgaagaagcc tatcttgtct acttccgatg 240  
accttgacaa gttccacagg aatttgcagc tctcatgcaa tctcaatcat cctggtgtgg 300  
ctaagttact agcagcacat gcgaagcctc caaattacat gtttttcttt gacttctacg 360  
agtctgggac tttagctgag aagttacacg tcgaggagtg gtctccgagt att 413

<210> 7735

<211> 495

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-062-Q1-E1-A4

<400> 7735

aactgttttag ccgnccgtag ccgtccaaaa attcaagggc cnacccacgc gtccgntcaa 60  
 agcaggtgta gccctgaatg ttccctgtg cctagtccaa gaatgacaag ccctggctct 120  
 agctctagaa tacagagtgg tgctgttaca cctcttcac ctcgagctgg aggggtcaact 180  
 actgggtctc ctactagaag acttgatgat aacagacagc aaagccatcg tctgcctctc 240  
 ccgccgttat taatctctaa tacttggtccg ttttcaccca catattcagc agcgacatct 300  
 ccgtctgtcc cccgaagtcg ggcaagggca gaggtacgg ttagccctgg atcgcgatgg 360  
 aaaaaaggga gattgctggg gatgggaagt tttggacatg tgtatcttgg cttaaactgt 420  
 gaaagtgggg agatgtgtgc catgaaagan gttactctat gctcaaata ttctaaagtc 480  
 aagggaagaa tgcac 495

<210> 7736  
 <211> 431  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-A8

<400> 7736

gaagagagaa accatgtctt cgccgagcaa gcgtagagaa atggatttga tgaaactgat 60  
 gatgagtga tacaaggtgg agatgatcaa tgatggcatg caagagttct ttgtcgaatt 120  
 cagtggaccc aaagacagta tatatgaggg aggtgtgtgg aagataagag ttgaacttcc 180  
 tgatgcttat ccttataaat ctccatctgt tggtttcatt accaaaatat accaccctaa 240  
 tgtcgatgaa atgtcaggtt ctgtttgtct agatgttatt aaccaagacc tggagcccga 300  
 tgttcgacct ggtgaatgtg ttcgaagaca tttcttcgc aacttcttct gtatccgaat 360  
 ccgtcagatc cattgaatgg tgaagcagct gcattgatga tgcgtgatcg tcctacctat 420  
 gaacagagan t 431

<210> 7737  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-062-Q1-E1-A9



<400> 7737

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agagaaacat ttccaagaca aatggccgcc gccgctgctc gtcctctcgt caccatccaa 120  
accttggatg gtgacatgtc caccgatcaa tcctccaccg tcgtacttcc cgacgtcatg 180  
acggcgccag ttcgaccaga catcgtaaac ttcgttcagc cccaaatctc caacaacagc 240  
ngtcagccat acgccgtatc gaagaaggcc ggtcancaca cctccgccga gtcctgggga 300  
accggacgtg ccgtgtctcg taccctcgt gttcccggtg gtggtactca ccgtgctggt 360  
caagctgcgt tcggtaacat gtgtcntggn ggctgtangt tcgctccaac caagatctgg 420  
ggccgctgga aacgtcgtgt caatgtaaaa tgaaacgtca cgncaatcg 469

<210> 7738

<211> 463

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-062-Q1-E1-B1

<400> 7738

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ttctctcagg cggatctgtt tgcggagct tttgtgaatc atcatcatca atgggtttgt 120  
tggaagcttt tctcaattgg nttcgtagcc tcttcttcaa gcaanaaatg gngctttctt 180  
tgataggact tcaaaatgca ngaaagacat cacttgtnaa tgttgttgca actggtggat 240  
acagtgaaga catgattcct acggtcgggt ttaacatgag gaaagtaaca nnaggaaatg 300  
ttacaatcaa nctatgggat cttggtggtc aaccaagatt ccgcagcatg tgggaacgtt 360  
actgncgcgc tgtttctgcc attgtgtatg tagttgatgc tgcagatcct gacaacctan 420  
gtttgtcnaa aagtggactc caaggaattg ttgnggaaaa att 463

<210> 7739

<211> 414

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-062-Q1-E1-B11

<400> 7739

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ttcctctctc cgcctctccc tttttgcatc ctogtgtaat catcgtctaa gaagaagaag 120  
aagaatcctt ttgcttggtg ctttactttc tctgcaaact ttcgtatctt tgcgtgtttg 180  
agaatctctc tatctttctc ggatttggag agttatcgaa gagatcgtgt cacattaagg 240  
attgaagaca agtctttaat gcagagaaat cgtgtgaaaa tggattctta agccccactt 300  
ttagttgcag atctgggagc tttttactgg gtttctgcta atttatcgac aagaacaaaa 360  
aaagggttgt tttgtctcac aagtgatggc cgtatgact cacatgcatg tccc 414

<210> 7740

<211> 452

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-062-Q1-E1-B3

<400> 7740

ccacncgtcc gcatattaca tagaaataat ggctcacgga caccaaggct tatgcttttg 60  
gtttatcttc ttactatgct tcttcagctc tacttttgca ctcaggattc ttaaggacct 120  
ccctatgatg gagccaagaa agctagatct gaaccatgaa atgatgcctg ggatgggtat 180  
gctacagcca gatcatgagg tccaacctga gcacacggtc aagcctggcc atacactcca 240  
gtccatgtcc ggtgtatcag aacatccaga gcacacgggt aagcctggcc atacactcca 300  
gtccatgtcc ggtgcattag aacatcctga gcacaaggaa aagcctgacc ataaactcca 360  
gtctatgttg ggagaacatc ctgagcacia ngaaaagcct gaacataaac tccaagtcta 420  
agttgggaan aaaatcctgg ancacaagga aa 452

<210> 7741

<211> 483

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-062-Q1-E1-B5

<400> 7741

gccgntcggg aaaggtccaa aaattcccgg gtcgacccac gcgtccngga accgttcctc 60  
accgtatgga gctgtaatca cgatgagaaa acagatgata atgataagtg tgagtgtttg 120  
ggtaagatct gtatggctga tgtaatctgt tacctatcca aattcgacaa caatgttttg 180  
tctctttcct ctgctttcga cgcattctgtc tctgtttctt ttcccaaata tctgtccctc 240  
gtcgtccatg ttcaatcttc ttgcagtttg attgaagcta ttgatctgat aatcaaagga 300  
gcacagaatc tgattgttcc gattcatatc aaatcaatca caaagagaag acaacaacaa 360  
aaactttctga aacgaaacgt cgtcgtttca ctcaccaacg caacttcaac aaccacaaaa 420  
aacagccgag aattctgctg gathacacaa gaaagacatt aatccaatcc ctcccaatn 480  
caa 483

<210> 7742  
<211> 479  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-B7  
<400> 7742

tgtctccgcc ggncccgtaa nggtccaaaa attcccgggt cgacccacgc gtccggaatg 60  
gcagcatctt tactcagact tcacttccac gactgcttcg ttcagggctg tgatgcatca 120  
atcttggttg atgatagtgc aaccataaga agtgaaaaga atgctggacc aaacaagaac 180  
tccgttagag gggttcaagt aatcgacgag atcaaagcca aacttgagca agcttgcct 240  
caaactgtct cctgcgccga cattctagct ctagctgtct gtggctcaac tatactgagt 300  
gggtggaccat catgggagct tccactaggg aggagagact cgaggaccgc tagccttaat 360  
ggcgcaaaca cgaacattcc tgcacctaac tcaactattc aaaatctctt aaccatgttc 420  
caacgtaaag gtttgaacga agaagacctt gtttccctat caagaggaca tacnaatgg 479

<210> 7743  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-062-Q1-E1-B9

<400> 7743

gtcnacccac gcgtccgtag aaatcaagat gggaagccaa ggcatgagtt caccgagtcc 60

cttgggtggg aagaaatcgc aagtgggttat agtgaaaccc tcaaaggcta cacctgatgt 120

ctctctttct ctctccacac tcgacaacga tccttatctc gaaaccctcg ccaaaaccat 180

ctatgtctac gctccacat ccccaaacga ccacgtccac gatccagctt ccctttttca 240

gcaagctctc tctgacgcc ttgtctatta ctaccctctc gctggaaaac ttcaccgggg 300

atcacacgac catagactag aattgaggtg cagtcccgcg gaaggagtcc cctttgttan 360

ggcaaccgca nactgtactc tctcttcct caactatttg aaggacntgg aactgactt 420

ataccaactc gtan 434

<210> 7744

<211> 501

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-061-Q1-E1-G1

<400> 7744

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ggacatcaac acaagagggc ccggtaatct catgggattc gccagaagt gcaagaaact 120

caaactgttc ttgcaagtat ccacagctta tgtgaatgga caaagacaag gaaggatcat 180

ggagaagcca ttttctatgg gagattgtat agcaacagag aacttctctg aaggaaacag 240

aaaagcatta gatgttgata gagagatgaa gttagctctt gaagctgcta gaaaagggac 300

tcaaaatcaa gatgaggcac aagaagatga aggatctcgg tctagagcgg gcaagatcat 360

atggatggca agacacttat gttttcacca aagcaatggg tgagatgatg atcaantagc 420

actcgaggag acgtacctgt tgttattata anggcctagc gtcacgana ggcactttac 480

aaaggatcct ttctgggat g 501

<210> 7745

<211> 427

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-060-Q1-E1-C8

<400> 7745

gggtgaagtt ttgacggagt ccctgactct aaaagagaca tcaattccaa ccaaagttgc 60  
tagactcatg cttgtgtctg atattcttca taatagcagt gcacgtgtta aaaatgcac 120  
tgcataccga accaaattcg aagcaactct acctgatata atggaaagct tcaatgatct 180  
gtaccgaagc ataactggaa gaattactgc tgaggctcta aaagaacggg ttctcaaagt 240  
actgcaagta tgggcagatt ggtttctctt ttcagacgca tacatatatg gactacgttc 300  
cacatttctc cgatcaggag tctctgggtg tacctcattt cattctatct gcggtgatgc 360  
acctgaaata gaagaacaaa agttacgctg acaatatgag tgatattggg aaagataaat 420  
ccaagat 427

<210> 7746

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-C9

<400> 7746

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caattcaaga ttggatcnag agagttgcgg ttattccnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnatcc gcgcctttta 180  
tcgangngct tggatcaattc tcttaccgtg tangcccagg gaatttctgt cnggtccatg 240  
tcagcctcgt gcctgtgctt aatgttggtg gtgaacagaa aactaanccg acacagcata 300  
gtgtcaangg gctacgagga ttgggcttga cgccggatat cttacttgt aggagcacia 360  
agccacttga agataatgng aaanaaaaac tagctcagtt ttgccatgtc ccgccttgag 420  
tatacctcac tctctatgat gtcccancat ttggcggt 458

<210> 7747

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-D10

<400> 7747

ataagctgca gattctatct ttttggttgg atatgtctct gtttgaagtt atatatttat 60

agttttgaat tcataggatg tggatgatacg tttgtaatct cgtgccatat ctttggtttg 120

tcaaagagag tgtgttttaa tgtcaatttc tgggtaacca agtttgagct ttttcctttt 180

gattctgccc ggctctctga ntttttaagg tgagattcct aagcatgtca attacttttt 240

tttttttttt aacattcgca attttcttga gttggtgacg ttttcgagat tttgttgatt 300

angtgcaaga cgacaagtga tgaaaagata gagacaaaag aaaggcttca agtttgattga 360

tanctgctgt ctaaagagtt cgttccttg aganattctg actccgac 408

<210> 7748

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-D2

<400> 7748

ggtcctagtg ngagatactt atnaagggtca gtgggtgatg aacctgaaac atggacatgg 60

aatcaagcgt ttcgcgaatg gagatgtgta tgatggtgaa tggaggaggg gtttgcaaga 120

agcccaagga aagtatcagt ggagagatgg gagctattac atggggggaat ggaagaacgc 180

tacgatctgt ggcaaaggta cttttatttg gacggatggg aatagatacg acggattttg 240

ggatgacggg tttcctagag gaaacggtac tttcaaattg gctgatggga gtttctacgt 300

tggtcattgg tctaattgatn cggaagagat gaacggtact tattatccat caggagacga 360

cgggaatcct gnattggatn ccnaagacc ngtttaccaa atctgagtga gtacaagatc 420

tgcagccgga gaagana 437

<210> 7749

<211> 496

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-D4

<400> 7749

ctgttacgcc tgccggtanc ggtccanaat tcacgggtcg acccacgct cggcacaatt 60  
tctccgttcg agatcaattc cgtcgagatc tcaagctctc tcaactcgtag taaaaaatg 120  
gcggcggttag cggcaccaat ggcttcgaag ccccggtgat ctaaagctga atcgttcgta 180  
gacaacaagc ggagagaaga tatccgattc gcgaacatca actctgctcg agcagtctct 240  
gacgcgctcc gtactagttt gggaccgaaa ggaatggaca agatgatttc cacggcgaac 300  
ggagaggtaa tcattactaa cgatggagct acgatcctta acaagatgga ggtttttgca 360  
gccaaagcggc gaagatgtta gtcgagcttt ccaaattctca agattcagcc gccgggagat 420  
gggtaccaca actgtcgtag taatcgccgg tgcgcttctc aaggagtgtc aatcgcttct 480  
cacaaacggg atncaa 496

<210> 7750  
<211> 423  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-D5  
<400> 7750

aaaaagagaa aaaaatagtg aatcaagctg tctcgtagca gtctttatag atcaaacgat 60  
aatcgaatcc aacgacccan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncaatc 180  
tgatctaaag cttttgtctg aaaaaaagtg tcagactttc tatgaagatg ttgttggtca 240  
atgggtgatt tttagtttgt gttaaagcag aagcataaga ttacttggtg aatcgattac 300  
aattttgatt tgattcagat atttgaaggg ttcttactag aatttgaatt ggggatctng 360  
aattccgatac aggcttttag agangtaggg aacattggaa ttgagatcgg ggtcaanctt 420  
ttg 423

<210> 7751  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-D8

<400> 7751

acgcgtccgg aacagttgaa gatacaatac gaatgttcat cttecgcttgt ggatgtgacc 60  
gagcttgaaa accaagtaga gagtctggaa gctgagctca agaagcagtc cgaagagttt 120  
tcagagtctt tgtgccggat taaagaactt gaatcacaaa tggagacatt ggaagaagag 180  
atggagaaaac aagctcaggt attcgaggca gacattgatg ctgtcacacg tggtaaagtg 240  
gagcaagagc aaagagctat ccaagccgaa gaaactctaa ggaaaacgag gtggaaaaac 300  
gctagtgtag caggaaaact ccaggatgaa ttcanaagac tctctgagca gatggattca 360  
atgtttacat caaatgagaa aaatgggcta tgaaagcgat gacagangct aacgaattac 420  
gaatgcagaa acgtcaacta gaagaa 446

<210> 7752

<211> 472

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-E10

<400> 7752

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tcttcaattc gaagaatctt ttaaacccta atcctctttc tcgcttcatt tctctcaaat 120  
ctaacttctt ccctaaatta tctccgagat cgatcactag tcacaccttg aagctcccat 180  
cttcgtcaac ctcagcttta agatncattt cctcttcnat ggnttcttctn ttcaancctg 240  
ancaagctag agttccctct getcttcctc tcccagctcc tccgttgacc aaattcaaca 300  
tcggnttggtg tcangctatc tgttacatct gacaaaaagn gaaacatntc ncatgctaan 360  
aaagccattg nagaagctgc ttctaaanga gctaagcttg ttctcttacc ccnggaattt 420  
ggnaacagtc cgtattccaa tgagagtttt ccagtttaag gcgnggggga ga 472

<210> 7753

<211> 414

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-E2



<400> 7753

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cacacattgg agttgaagga gacctcgctg ttaagttggg canaagctac accgtnatgg 120  
ctgaaagggtt tgtcaacctt ttggagatga tgtctacggt ctcgccaag tataagttcg 180  
atgctaattgc naagataagc gctantgaga gtgctgagat tganaaatgt gtgatgaagt 240  
tgaagagtgc cattaggtct tacgtgaagg tgatctctca gtgcagcacg anattctctg 300  
ctgggaagag tattggtttc cccacttacc ccgttggttt cattggaggt atacctanac 360  
aaggctctcg gatntgcngg taaaatttgt tggaccctca tgggcaaatt tgga 414

<210> 7754

<211> 491

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-E4

<400> 7754

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tgcgatttgc actaggtggg aagaacagta cggatagatc tttgataaca gaaataatgt 120  
gttgggtttc acagaatcca cctccagctc atctcttctt tatctctagt gatagcgatt 180  
tcgcgaatgt gctacataga ttgaggatga ggaattacaa cattttgctc gcgtgctacg 240  
aagaaacgac gcttggtgta ttgtgcagtg ctgcttcgat tatgtgggat tgggatgctt 300  
tagttagagg gcaaaatcca actgctaaac attttaatca gccacctgat ggtccttatac 360  
attcttggtg tggtcacnat acaactcctc ttcttgacct atttgccaca tctaccaata 420  
ataagcagat atcttctact aatgtcaaaa ccgtagagtt gccccgaatt gggttcctcc 480  
aaagtccng c 491

<210> 7755

<211> 440

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-060-Q1-E1-E5

<400> 7755

acgcgtccga tcccaaggaa ggctcttggtg atattactct taagctacca cattctcttc 60

ctcgtatattt cccatcagat caagaaaata tggaagggtta ccatacatat cgtgggggat 120

tctggaatta cttcagcttg ggaatggatg ctcaagtatc ttatgcattt cattcccaga 180

gaaaactgca cccggaaagg tttaaaaatc agctagttaa tcagagcaca tatctaaagc 240

ttagttgcac acaaggatgg ttttttgcct ctctttttca cccttcttca caaaacatag 300

ctaagcttgc aaaaattcag atttgtgata gaaatggcca atggaatgat cttcatattc 360

cccaaagcat aagggtccata gtatgtttga atcctcctag tttttcctgg aggactaaat 420

ccttggggaa caccaaattcc 440

<210> 7756

<211> 484

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-E6

<400> 7756

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agctcgacga agatgtcttg cttgatttca tcaacttgct cactcgtecc cttcgactcg 120

aatctgactc gttcgaatcg tttcaccaaa ctgggttctg cagtttcatg gcaatcttcc 180

tttccctaac tctccatcga aatcggtctt gttatctcat cccccattgt caagaaggta 240

aagccgtcta ctttcgtagt ccatgcacaa tctctgaggt tgtttcgtac tttctcttgc 300

gcgtatagta ttgtgcttgt ctgatTTTTT ttangetttaa gtgtgttctt atatgtttga 360

agctcgttgt tcagatttag gcaattgtaa tttgtggttt aaaggtaaaa atctaaggct 420

tcttctagtg aatctttatg aacatgaaan ctanganact cctaattgtga ataaaaantg 480

ttgg 484

<210> 7757

<211> 446

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-060-Q1-E1-E7

<400> 7757

acgcgtccgt ggatctgtta gaaatgggta tgaggatcct cttgcactct ctcccacggg 60  
tgtgcgattt tattcgctta gatcgcataa ctatgttcat gttttgaggt ttagatctac 120  
tgtttatatg gtttagatgca gtcctcggat tgtcgctgtt ggctcgggt cgcagatata 180  
ttgttttgat gcgctaactc ttgaaaacaa attcagtgtc ctctcgtatc ctgtacctca 240  
gcttggaac caagggatat ctgggggttaa tggttgatat ggtccaatgg gctgtcgggg 300  
gctaagatgg ttaagcgtat gcttccaata gtcccttgtc ttctagtata ggctgtctga 360  
gccctcaaaa tgttactcct cctgggtgtc agtccaatct acctccgcca aataatggta 420  
atcctggtgg gcaagatacg ctatgg 446

<210> 7758

<211> 448

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-E8

<400> 7758

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atacgagaga ggattcttcg agagatgagc agcacaagca ctagttctgc tcttatccac 120  
catttccgcc tcaccactcg caacttgggt tcgcctacaa agcagcgttg tccttacgct 180  
gtaactttct gcaattcgtg gaggggaagct ggactccgat actccgtcac gcaacgcggg 240  
agcaaaggct ttgggccggt gtcagctctc aatgacgacg attcaccaac agagaccacc 300  
cccggcggtg gctctgctgt agaagacaga nnaccagatt catctgaaga tagatcaagt 360  
tcggtctatg gagtttctgt atccccgtaa agaggagctc cctggatgac aaaagaantg 420  
actattttcg accaatctcg aggagctc 448

<210> 7759

<211> 439

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-C7

<400> 7759

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnatccgcg ccttttatcg aggcgcttgg tcaattctct taccgtgtag gccagggaa 180  
tttctgtctg gtccatgtca gcctcgtgcc tgtgcttaat gttgttggtg aacagaaaac 240  
taagccgaca cagcatagtg tcaaggggct acgaggattg ggcttgacgc cggatatctt 300  
agcttgtacg agcacaaagc cacttgaaga taatgtgaaa gaaaaactag cctcagtttt 360  
gccatgtccc gcttgagtat atccntcact ctctatgatg ttcccaacat ttggcgtant 420  
cctttgttgc taaaagatc 439

<210> 7760

<211> 464

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-A12

<400> 7760

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ttttccatat actaatgggg aggtttcata aatttctct cctaggttta gttctgttcc 120  
tcggtctgac cggctcactt atcgccgcca atgagtatgc ctgttctagt accgatatac 180  
actttactcg tgccaatttc cctaaagggtt tcatttttgg taccgcaact gctgcttttc 240  
aggttgaagg agctgtaaat gaaggatgta gaggtccaag catgtgggac gtatacacca 300  
agaaattccc acataaatgt aattatcaca atgccgacgt tgctgtcgat ttctaccatc 360  
gttacaagga agatatcaag ttgatgaaaa atctgaacac tgatggcttt agattttcca 420  
ttgcatggcc cagaatattc ccccatggta ngatggagaa aggg 464

<210> 7761

<211> 454

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-A3

<400> 7761

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tcttcccaat ttacgaaact tcacgaaaaa tcttcttcgg attcttctta accctnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnncattgta ggcggtttcg cgtcttgta cgaatgata cattgtctca cgtgagattg 240  
tcagtcagtt agtgcaatgt caaaccttca ttcattcttc aatgggtcag cttegaattt 300  
accagatggg tcgggcagat cgtttactgc ttcttattct ggacaatctg gtgcaccgtc 360  
tccctctttt catcactg gaaatcttca gggacttcaa aataatcaag gggaaactat 420  
aatgtcggga acaatgcaaa ggtacactta catc 454

<210> 7762

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-A6

<400> 7762

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cagctccgga gataaaaaaa aaaagtattt tcttgaaatc gaaatctgat ctccattgag 120  
agtcttgcta cttgatttgg attccgattt aagggtttct cgagaattct tttgctgcag 180  
ttattagatt ttgacgagcc gttgatctgg acggagttcc agatctccgg gtcgtggtac 240  
caaggaatta nggttttaag cacaaagttc tcgtttttct gtgtattcga gggatgaagg 300  
agttttcggg tcnatgttcg gctgctctaa catttggneg natgaangan gaacatgaag 360  
aaattttctca agaaaagcgt tcggtntcac ggcantcaa cggagaagaa tggatgaagg 420  
tcnagt 426

<210> 7763

<211> 434

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-A7

<400> 7763

acgcgtccgg ctgcagccac agagaagact tgctccttcg agtcaacgcg aaaaactgta 60

ctaaagttcc aagaagttag cccctgggcc acgtttggac acgtggcggc aaacggagca 120

atcttggaag cagtagacgg agaggcaaag atccacatcg ttgacataag ctccacgttt 180

tgcactcaat ggccgactct tctagaagct ttagccacaa gatcagacga cacgcctcac 240

ctaaggctaa ccacagttgt cgtggccaac aagtttgtca acgatcaaac ggcgtcgcat 300

cggatgatga aagagatcgg aaaccgaatg ggngaaattc gctagggctt atgggagttc 360

ctttcaaatt taacattatt catcacgttg ggagatttat ctgagtttga ttctcaacga 420

actcgacgtt tnaa 434

<210> 7764

<211> 412

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-A9

<400> 7764

acgcgtccgc ccacgcgtcc gccacgcgt ccgccacgc gtccgactct gtgagcttta 60

tccgcttcca atggcgtctt ccgccgttc tcttcttta tctctactct cattcacctc 120

gaagccacct tatccctccg gctctcagcg gctatttgcg tcattcagaa cggacggtct 180

tttcgcgcct ttaacactga aatcccgaac cggccgtggt atagtcgtta aagtagatga 240

cgtcgatgct gatggaggtg gagcggacga agtatgatat ggatgatgag gnggtagang 300

aagttgacaa caagaaggga ctatgatgtc gagtatgaac cccttggccg ccgcgataan 360

cggctgcaag gcggtggtgg gtgattggag atatcgcttt ggtcaanagt aa 412

<210> 7765

<211> 403

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-060-Q1-E1-B1

<400> 7765

gcgtccggcc agtantactc gtgatgtatc tagtgagta catgccttcc cttggcttct 60  
ggctcatgga caagggttga ggaaagcgtg tggaggtcgc ggaaaagaaa ggcaacacat 120  
actcgtggga tttactgttc gggaagaaga ctaaaacaaa ctgaagctga ttctctagaa 180  
gatacacata gatgtggttg gttgagcctt agtccgtaaa tgtggttggg gtttgtttgc 240  
tantttgatt gttaaataac taccaaagcg tcnaaaaatg ttttgttgcc cttgtgaggt 300  
gctcantaag ttangaaaaa gatgtgatta annngagnag gcagananaa aaaggncggg 360  
ccgctctaag aaggatncaa ngcttaacgg tacgcngtgc atg 403

<210> 7766  
<211> 467  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-B12  
<400> 7766

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aacanogata aaaccngna catcaagcaa acanaaaaaa aagagaagag aaattatattt 120  
tttttgtttt cgttttcaaa aacanaaatct ttgaatttta tggcaaccgc tcttctccga 180  
acaaacttta tccggcgatc ttaccgttta cccgctttta gcccggtggg tcttcccacc 240  
gtgactgctt ccaccgccgt cgtcccgag attctctcct ttggncaaca agcaccgna 300  
ccacctcttc accacccaaa acccaccgag caatctcacg atggtctcga tctcnccgat 360  
taagcccgtc ttttctcct ctatcccaac ctctgatctc ctccgttcca ccgccgtgtt 420  
gcatgcccgc gggataggtc ctatggtcga cctaggggac gtgggtc 467

<210> 7767  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-B2  
<400> 7767

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gaaacatggc tgaagaacaa caaaactcag atcagagcaa tggatgaaac gttattccaa 120  
ctcctgaaga agttgctacg ttctgcaca aaactgttga agaaggtgga tgggaaaaat 180  
gttgggaaga agagataaca ccatgggacc aaggagagc cacacctctc attgttcac 240  
ttgtcgacac ttctcactc ccacttggcc gtgtctgtgt ccccggtgt ggtggaggac 300  
acgangtcgt tgcctatggc aagtcctgaa cgccttcgtt gttggatttg gtatttcccg 360  
anngcgcact ccncgaaagc ctaatgagaa cttacgggct cctccaccaa n 411

<210> 7768  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-B3  
<400> 7768

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaccgtcgt caacaactgt 120  
cccttcactg tctggccagc cattcaacc aacgcggcc acccgctct agagaaaggt 180  
ggcttcgctc tcccaacttt cactcaccgc tccttcaacg ttccaaccac aactgggtcc 240  
ggtcgcatct gggccagaac ctggtgtgcc cactacaacg gaaaattctc etgcctcacc 300  
ggagactgcg gaaaccgctt ggaatgcaac ggtctcggcg gggcaccacc agcttctcta 360  
gtcaattcg acctcaaca cgggtgtcac cagacttct cctcttacgg gtgtctctct 420  
cgttgnacgg ttacaaatgt tcnatgaac cgtgactcct caanaaaggc aatgg 475

<210> 7769  
<211> 442  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-B6  
<400> 7769

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tcactaacat aaactgctca aacaatactt ccaacataac cacctttaag cctctcaagc 120



ttcctctttt ctggccatgg caaaagggtca aaatgggtcc tttaagtgtt tctcctatgg 180  
gttttgggac atgggcttgg ggtaatcagc ttctttgggg ttatcagact tccatggatg 240  
atcagcttca acaagctttt gaattggctt tggaaaatgg aatcaatttg tttgatactg 300  
ctgattctta tggcactggg taggcttaat ggccaaagtg agagactttt ggggaaattc 360  
attaaagaat ctcaaggact taaagggaaa cnagnatgaa gtagtggtag ctacaaagtt 420  
tgcagnctta accaaggag gt 442

<210> 7770  
<211> 482  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-B7  
<400> 7770

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catatgaggg gagatttgag attctgtctt tatcgggatc tttccatttg ctggagaaca 180  
atggtcaaag aagcaggacg ggaggtctaa gcgtgtcatt atcaagtccg gatggtaatg 240  
tcctcggtgg cagtgtagct ggtcttctta tagcagcatc acctgttcag attgttgttg 300  
ggagtttctt accagacgga gaaaaagaac caaacagca tgtgggacaa atgggactgt 360  
cgtcaccggt attaccggt gtggcccaa cgcaggtgct gatgactcca agtagccac 420  
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ca 482

<210> 7771  
<211> 475  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-C1  
<400> 7771

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aattttctgga cttcgacgca ctacaaagag ctttaaggacc cagaagaggt taatgttgtt 120  
catcctcttg atgctcatag aggaatctct gttgaagatt tcagactcat taagcttcat 180  
atgtctaatt atatatcgaa actggcacia cacattaaga ttaggcaaag agttgttgca 240  
actgcantaa cctatatgcy tctgttttac acaagaagag tttgacggaa tatgagcctc 300  
ggcttggtgc tcctacatgc ttgtanttgg cntgccagag caggaagnag agtgtgggtg 360  
catgccaaaa cntccttgct gtcctacatg aaaaaacttt atggcgggtg annaagtttt 420  
cnatnagagn attaacggnt ntctngnaa tngngaatg aanggccttg ggaaa 475

<210> 7772  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-C2  
<400> 7772

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gacactcgaa gaacaacaat gatcttgctg atttcaacta cgacgagaag aagaagttag 120  
gttatggaac tcagagagag agattgggga gagactcgat caaacccctt gatgcttgtt 180  
ctctctgctt gaagcctttc attgatccga tgtgttgcca taagggtcat gtcttttgca 240  
gagagtgtat acttgaatgt ttccttgctc agaagaaaga tatccaaagg aggcttgctg 300  
cacattcgct tcanaagaag caagataagg atgnagaaga agagaggcta atgttacaaa 360  
aaggcgagag aactccaana aattggntaa gcaaaaacca tagttgcaat ggctccaa 419

<210> 7773  
<211> 399  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-C3  
<400> 7773

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actctatgga atctgaagat tcatcgggtg aagtatacga aaccgggtgt aatgaaatta 120

cttatgcaat tgaggaggat gaagaagatt tttcagagag ggaatatgtc gaaaatgtgg 180  
agaattttctc taacataacc tctactcctc tacgggcaca gccagaaaga atgcagaaat 240  
tggagtctcg agcaaaaaca caatgtgtgt ttgaagatga ggatctgagt agtgacagtg 300  
acaacaaaacn tocagaagct gagacttcan aagaaggaaa tggtttgga naaggtcatg 360  
ttgtatccaa cctantcgag tctttgaaaa gnaaacccc 399

<210> 7774  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-060-Q1-E1-A1

<400> 7774

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ctggcccgtg acaacgatcg ctacacgaag cttatcatag aggaaggang tgtggtgcct 180  
ctccttaaac tgctcaagga agggaagccc gaggggcaag agaacgcagc gcgtgcgtta 240  
gggttactgg gacgtgatcc tgagaacgtg gagcacatga ttcacggcgg cgcttggtcc 300  
gtcttcggga aattcctcaa aagaanggcc tatgaaagtc caaggcnggt ggtttgcntg 360  
ggctacgtcc ggagcttggt tccaatcacc ccnaagntgc caannacgtc ttcgggtcaa 420  
agaanaacgg caat 434

<210> 7775  
<211> 412  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-059-Q1-E1-E12

<400> 7775

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atcaagcctt gaaggttatg tgaaaatagt gagagatggt cctgatgaga taatgactcg 120  
ttttagttac aatgtttcaa gtattcctac tattcgtggt caagcttggg ctactgtgaa 180

ctactataac ggggaagttt atccggtttt aaaggaacat ggggttattc ggataactcc 240  
 tttcgcaaat agattggcga tgagtgttcc accgtatata caacttttga ggtgcatagc 300  
 taattacaaa gcattgaagt tttcttcacc tatatcaaca ctagctgaga agttagtcga 360  
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<210> 7776  
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 <212> DNA  
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 tgtaccaaac cgctatgtga agccggctca tcagagaccg gtctttaaca ccaccaatc 180  
 cgatgctggg atagaaatcc ctgttctaga catgaacgac gtttggggga aaccagaggg 240  
 gctaaggctc gtgangaacg cgtgtgagga gtggggtttc ttccaaatgg tganccatgg 300  
 ggtgaccac tcgttggtg ggagagagtg agaagagcgt ggcgaaaagn tcttcgancc 360  
 aacggctnga gggaaaaacg g 381

<210> 7777  
 <211> 326  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-059-Q1-E1-E8  
 <400> 7777

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 tccaatggag tatgcagcga cgattactgt taatccattg acggctttga ggatgcttga 180  
 ggactttgtg aacttgaatt ctggggattc tgttgtacag aatggtgcaa caagtattgt 240  
 gggtcagtgt gtcattcagt tggcangact ccgtggcatc agtaccatca accttattcg 300

tgacanggct ggggtcggan gaaagc

326

<210> 7778  
<211> 413  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-059-Q1-E1-F10  
  
<400> 7778

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gatctcaaca actgatctcg ctcagcatatc tcttgaacag gtggaacca tccgcaattt 180  
ttttgcagca ctgttccttg ctagtatcgg catgttgata catatgcact tcttgtggaa 240  
ccatgttgac attctgctag cagctgtggt actggtgata gtgataaaga cgttggtant 300  
tgctatcggt gttaaagtct ttgggataca ataacaaaac tgcagtactt gttggtatgt 360  
cccttgcaca gattgnggga aattgctttt ggttctgcc aantcgaaca atc 413

<210> 7779  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-059-Q1-E1-F11  
  
<400> 7779

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nacgtctctt gggactttca 180  
cgaagcttcg ttagctctcc gatggcgact gctctcactt ctgatcgtaa tctccatcag 240  
gaggatcgag ccatgcctca gcttcttact gagtttatgg tggatatgac atgtgagggt 300  
tgtgttaatg ctgtgaagaa canattagaa accattgaag gtattgagaa agtgggaagtg 360  
gaatttgtcc aaatcaaagt tgtaaggata cnttggattc ttcccngggt taag 414

<210> 7780  
 <211> 526  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-059-Q1-E1-F3

<400> 7780

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tgcgatcgcc tccgccgcag ttatttttcga ggagcgcgtt gatgatggct gggagaaacag 180
atggggttaaa tctgagtggg agaaggatga taacactgct ggggagtggg agcacactgc 240
gggaaattgg tctggtgacg ctaacgataa aggtatccag accagtgaag actacagatt 300
cctacgceaa tttcaagcct ggagttcccc tgaaattcaa gttancaaag ggacaaagaa 360
ccttaagtcc ttccaaattc ctcaagtcaa agcaacgaag caaaaagcct tgaactgccn 420
gggtgggtngg ctaacaatng aaanctacta aagttgggtg tgtttgacca aaaangaaaa 480
ttttgggtgg angacacacc aatacaagta tcaatgtttg ggteccc 526
```

<210> 7781  
 <211> 511  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-059-Q1-E1-F4

<400> 7781

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ctctccttct cactctcttc tttctacagt tatttcgctt tagcagatta cttaaattcca 180
cngtttcttc ttctccggga gcatttatgg cgtcagcggg gacggngtca ggcaagggtg 240
agaaaggaca tcagctatat anagacggca agtataagga ggcgcttctc ttcnatacgg 300
angctcttac tgctgctaaa agctnaaacc acaggaanat cgctcttcac aancaaaccg 360
gcgcccgcct tgtaaacttt gaaatttgca cgnatttcat taagnggnaa gcangaaaga 420
atgcaacttn gtgttcnttg agccttgatc aagaaacata accggagcgt tgaangctga 480
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agggntcaag actttangtc cctccctaaa a

511

<210> 7782  
<211> 404  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-059-Q1-E1-F9  
  
<400> 7782

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tacccttctc ttatggggca acgagactga ctagtaaagc ttcattagcc tcaagaactt 120  
ccggattcaa tctctcttct cgttggaact caacgagaaa ctcccctatg ttgtatcttt 180  
cgagagcagt gacaaacaac agtggcacca cagagatttc tgataatgaa acagctccaa 240  
ggacttactc atggcctgat aacaagaggc caaggggtgtg cattctaggt ggtggctttg 300  
gaggattgta cacaagcttt gagattagaa tctcttgttt ggctgaaga caaaaagcct 360  
cangtggttt tggttgaaca atccgaacgt tttgtgttca ancc 404

<210> 7783  
<211> 493  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-059-Q1-E1-G1  
  
<400> 7783

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actatggtcg ctctttcaa cggacttaag tcttccgtg ccttcccagc caccgcgaag 180  
gntaacaacn acattacttc catcacaatc aacggcggaa gagttaactg catgcagggtg 240  
tggcctccga ttggganaga agaagtttga gactctctct tacctttctg aaccttaagc 300  
gattcngaag tnggctaang ggaagtngac taacttatcc gcaacaangt ggantccctt 360  
ggngttggaa tttcgagttt ggggnacagg gttttgttgt tancggtgag ccacgggtaa 420  
cgtcancccg ggattactat gattggggcg ggtattggac antgtggaaa gcttcccctt 480

gtttcggggtt ncc

493

<210> 7784  
<211> 383  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-059-Q1-E1-G10  
  
<400> 7784

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atcccaaccg aaacagcttc tagagagaga caaaaaagaa cagagtaact atctaaaact 120  
caaaatgtgt gcacttgtcc ctccattata tccaatttc ggctggcctt gcggagatca 180  
tagcttctat gaaaccgacg acgtatccaa cacgtttctt gattttccgt tgccggactt 240  
gacggtgact catgagaatg tgcgtctga gaataacaga acattactag acaatcccgt 300  
ggtgatgang aagcttaatc acaacgcgag tgaangtgaa gcgtcgcaag aangatcaac 360  
acgatgttct catctcctcg ntc 383

<210> 7785  
<211> 477  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
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<400> 7785

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gttcttacg tgcaaacaaa tgctcaaga actgtggaaa accttcacag acattgtatc 180  
atgtacctcg ctggtggcta aaaccgagcg ggaacatact tgttctgttt gaggagatgg 240  
gaggagatcc aacacaaata tcatttgca caaaacaaac aggaagcaat ctttgtctaa 300  
cgggtgcaca gtctcatcca ccaccgtgg acacattgga ctccgactc aaagatctca 360  
aagcagaaac angaaccaag gccggttctt tccgtttgaa aatgccctaa cctcctaact 420  
cagggtgata ttttccnata aaaatttngc aangctttgg gtacncccca aagggtta 477



<210> 7786  
 <211> 408  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-059-Q1-E1-G5

<400> 7786

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gaggtgcgat cttcaaccga agagaacgag aatgtgcgat cttcaaccga agagaacgag 120
tatgtgcgat cttccaccga agctggtagg ggagaagatc ctcacgagga ttccgataac 180
atctctgaga gcggtgcgat ccacttgcaa attatggaac gctttaacca aagatcgggt 240
tctgggtaaa gcanccggcg aagtttttgg ggtttaagac gatggattca aaggtctgtt 300
cagttagatt ccaactccgt cgcaacaagg gagggaagaa gaaagacacc atgggttcna 360
tcctataaag caagnaagat tttgccttaa accaagtcn agaataac 408
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<210> 7787  
 <211> 405  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-059-Q1-E1-G9

<400> 7787

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tgggaaatat ggagagatca ctgattctgt gattatgaag gataggaaaa ctggacagcc 120
tcggggattt gggtttgtca catatgctga ttctctgtg gtcgacaaag ttatccaaga 180
caatcacatt ataattggca agcaggttga aattaagcgg acggtaccat ctttatggaa 240
ggtagagagt tcgatgaaag cttgaatctt cttcttactt gttgtgtcat gcttagcatc 300
atgtatgggt atcaagattg atagctagtc attgtatttt gagagatgag gcttttangg 360
ctttgattcc cctgagtaat ttaaataaat acatttttta naata 405
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<210> 7788  
 <211> 385

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-059-Q1-E1-H12  
  
 <400> 7788  
  
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 ttccgggtcac gctcctcccg tgacaccgag aaaatcagca tgtccaaaaa cagtatccga 180  
 actccagacc ttacctttta ccgaaatcac tgagatccna aaccgaaaag agcgggtctgc 240  
 cccgaaaacc cctgagttca aggcaatggt cacaatgtgc aaaggctacg tgacatacct 300  
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 atacaccctg gatgaacnaa tggca 385

<210> 7789  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-059-Q1-E1-H3  
  
 <400> 7789  
  
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 gctaaagtgg ccaaactcac ggtgggaccg cccgaagaga actccgatat cacggcagtg 180  
 gtgtcggaat cttcagctaa tttcattgaa ggattggtga tggatgctaa ggagaaagga 240  
 gcaacgtttt gtcaagagta taaaanagag ggtaacttga tttggccggt gcttttggat 300  
 aatgttagac cggacatgan gatcgctggg gaggaaccat tcgggtcctg ttgtgccggt 360  
 cntgaaggat caattctggt gaagaangga ttaatcattg caatgcaagc aactttggcc 420  
 ttcagggatg tgtattcact aaagncatca acaanggcaa tactgntcag tgggtccaat 480  
 gggggaac 488

<210> 7790  
 <211> 393

<212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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<400> 7790

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at ttgctgaa attctcattt ctagatcgaa aaaagcgaat aattcgtttt catttgattc 180
ttgcctaata ttaggggtgtc tttatttatc taccaaaaga atgtctaatt atcgaggaga 240
tgatgctgag tacatggaag acgtanatga tgagatggaa gatgttgaag atgatatgga 300
tgaggagttt ccgtgggtgat gatcttgggtg cttcagattc tgacgttgan gaatttgact 360
attcgaacaa tnaagtagct ganaacacgg ctg 393
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<210> 7791  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-056-Q1-E2-G5

<400> 7791

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tcccggagat tcacaaagcc acatcaccca ctcaaaccct cactctaac cagcaagact 180
gccattggta tgaagaaacc atcgatgatg atctcaagtg gtcttttgcc ctcaacagtg 240
ttctccatca aggaactagt gagtacaaa gatattgctc tgttggacac caaacgttt 300
tggaaggtg ctgtgaantg atgggaaaat gcaanagtgc tgagagagat gagtttaant 360
accatgaaat gtttgattca atcccggctn ctcttttttc catcccaaac cccaaagaac 420
tggtgtttat aaattgggga ggaggtgaag ggctctggct gnaagaaga 469
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<210> 7792  
 <211> 469  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-056-Q1-E2-G6

<400> 7792

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 ngttttctct ccggaatgc atccaccatc ancacgattc tctcctccca ctatggagga 240  
 aaccaagaga gtatcttaag ccagattttg tctccggnga ggctaataa tcctacttac 300  
 aatcatctcg cgngatctca naagtnatac nganacanac agcaacatga gcttggtgan 360  
 ctaatgggag gatttgnctc aaagacttga nggncaatcc acatgggaag cttcnggtg 420  
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<210> 7793  
 <211> 411  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-058-Q1-E1-A12

<400> 7793

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 ctgcgccgaac aagcagagcg ttacgaagaa atggttgaat tcatgganaa agtcgcgaaa 180  
 gctgttgaca aagacnaact caccgtcgaa gaacgtaatc tcctctccgt cgcttataaa 240  
 aacgtcatcg gagctcgtcg tgcttcgtgg agaatacatt catcgatcga acaaaaggag 300  
 gagtctcgcg gtaacgatga ccacgtttcg ttgatccgtg actacaagaa gnanantcga 360  
 aaacggaact ttctgatanc tgtgacggaa tccttaaagc ttctcgataa g 411

<210> 7794  
 <211> 504  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-058-Q1-E1-A2

<400> 7794

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gagcagaact tgatgattac acacagtttg gtgtaaattt gcagactgat caagaggata 180  
cctttccaga ttttgtgtca tatggtgtga atttgcagca ggagccagat gaagtcttta 240  
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aacaggtggg gcaacaagat tgtgaanttg tgcaggaaga agaagtagag atcaattctg 360  
ggtcacctcg gtggagctgt taaagggaag ancaagnaca tttagatgac gattgctcca 420  
aaaaacgggc aaaggactgg atcgtgtnac aagaggaagg aaggaactaa anccntgccc 480  
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<210> 7795

<211> 446

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-058-Q1-E1-A8

<400> 7795

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actcagtgtc acaaaagaca ttagactatg cttgtggaaa tggagctgac tgtaacccaa 180  
ctcaccocaa aggtctcttg ttcaatcctg acaatgttag ggctcattgc aactatgcag 240  
tcaatagctt cttccaaaag aaaggtcaag cttctgagtc ttgtaacttc actgggtact 300  
gccactctta ccaccaccga ttccagctat acaggatgtg cattccttct agtgctaattg 360  
gttctagtgg aagcgggtanc aacaacgtga cgccaaggca aaaacagtcc aaaaggaagc 420  
aacacatcaa caacatttcc cgggng 446

<210> 7796

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB24-058-Q1-E1-B11

<400> 7796

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cgtgttaatg actcttctag tcgtaacaat ggccggaaca gcattctccg gtagcttcaa 180  
cgaagagttt gacttaactt ggggtgaaca cagaggcaaa atcttcagtg gaggaaaaat 240  
gttgtcactc tcactagacc gggtttccgg gtcgggtttt aaatccaaga aagaatattt 300  
gttcggaaga atcgacatgc agcttaaaact cgtcgccggt aactccgctg gaaccgtcac 360  
tgccctactac ttgtcatcgg aaggaccaac acacgacgag atagactttg agt 413

<210> 7797

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-058-Q1-E1-B12

<400> 7797

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nnnnnnnnnn aaggttggaa cttttcttgg gatgagaatt cacttcttct ccaattgaaa 180  
gatgggttag gagatgaagc tattgaagtt atctatgttg gttgtttgaa agaagagatt 240  
cctcttaatg agcaagaaga agtgtatcag attcttcttg agagtttcaa gtgtgtgcct 300  
acgtttttgc ctttgattt gtacactaag atactaccat ggattctgta agcaacagct 360  
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<210> 7798

<211> 479

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-058-Q1-E1-B2

<400> 7798

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tgatacttta aaccctagcc ctagtccccc tcttcgcaaa ctagaagaac agatccagct 180  
tccgttggat aagtatggcg ttgaagggtg ggaaaccggc gggagtatcg ttcatttcgt 240  
agatgaaaat gaagtttatc aggtctcgat ttttcttcn tcgaagttat gagcctccag 300  
tactagtgtg tgctatgaat gaactgctgg acctaatc aaggggatcg tcaactccta 360  
cccacaatca tagctccttt ctttgtggcg ggatctaaag ctcaagttca aataacaaat 420  
tcnttgaaa gcaaataacc agannangcc aagtcctcaa tacgttcaaa gttngctac 479

<210> 7799  
<211> 461  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-058-Q1-E1-B8  
<400> 7799

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tcttcacca gagacaattc catcatcatc atcaaataga caaggaaga attcaatttc 180  
ccctttcttt attggcgcga agatctttca cagaatcaat caccaacgaa aaatcgagaa 240  
tggatgtttg cttgagctat ttcataat atggatgatg agattgctaa agttcatcaa 300  
gaaagagtgg atccaacaaa ggttgtgatt gataacgaaa gtcttgcaaa agatgttact 360  
ggtcaataaa ggtgggataa ttgcaaataa accatgggaa tacttctggg aaggttggtc 420  
aaagtttga ctgaacttaa tccggactaa ttaagaaaag n 461

<210> 7800  
<211> 500  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-058-Q1-E1-C2  
<400> 7800

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agcatttcct caagcaactc cagcctctac atttccacct tgtacttcaa gactattatc 180  
atttcaatga tctactgact ccggaagaac aagctatccg gaagaaagtg agggaatgca 240  
tggagaaaga agttgctcca ataatgacag agtactgggg aanaaagcag attttcaatt 300  
ccatatcact cccaaagcct tggggggcta tgggttggtt gctgggtggct ccgattcaag 360  
ggtttaaggg atgttcctgg ggcccctcca atcaccggnc aaatgcaa at tgccaacagc 420  
aagaaatagc ntagaagtng attncaagtt gttcgncttt cattttggng cattcttctt 480  
tgggcaagcc ncacaattgg 500

<210> 7801  
<211> 389  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-058-Q1-E1-C5  
<400> 7801

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angttacaga ttcgaactca tcccagacgg atcaagcggg gcaggaatcg tgcttgcgga 180  
atcaaccata agttctcaca gaggtgggaa attctcaatc gagttgggat cgtcgccttc 240  
ttcatcgtcg ccaacaagtg tgggtgaaccg atcgagaagc cgtagagggt ggagtagtgg 300  
aagcgggtga ggagcatcgc cggcgaatag tccgaganga nggaacggag attacggtta 360  
cggattgtgg ccgtggaact gtncaaagg 389

<210> 7802  
<211> 481  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-058-Q1-E1-C8  
<400> 7802



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cattggattc attacacaaa ccggagagac atgtcggaga aagagcacc tcggctaatt 120  
ctacacaatt tcctgtcgcc ggcagaatgc aaggttggtc cttttttgct taattttgtg 180  
tctaatactg tgggtttggt taattttgag gtaaaaacag gaacttgagc ttatacacia 240  
gagtagcagt acaattgggt acagaccaa tgtcttctcc actactctct ctcacctcat 300  
tgccactaat tctcctcacc tcatcatccc ttttgtctcc attagagaga ggttgaaaga 360  
gaagatagag gaaacatttg ggtgtgagta tgagcttttt attgaattca caggtttgat 420  
tagttgggtgc aaaggganct aacaatgggt ggcaaatga tgataacaag ttaataccaa 480  
a 481

<210> 7803  
<211> 466  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-G4  
<400> 7803

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ggggctgggg aagatacga aatttgggat taggtgaccg gactgaccgc ttagttcctg 120  
aaagagttac ctctactggt ggtgangaaa atgtcaatgg ttgcttgtgg atggcggcac 180  
acaatatcag gtttctact ctggagcatt gtatacttat ggatggagca aatatggaca 240  
gctaggacat gganacttgg anggatcacc ttattcctca caanactggn agcactgagc 300  
aacagtttta tctcccaaga tttcggggag gttgggagac atacaatggg cattgacttc 360  
ngatgggaaa accaatatgg atgnggttng ggaataagtt tggaccannt cggagtcccc 420  
caataaattt agattngtgt tcccctgtgc naattccgaa ttcccc 466

<210> 7804  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana  
<223> Clone ID: LIB24-058-Q1-E1-D10

<400> 7804

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gaggaagcag atatattatt tgaaaattga agaagaaagg attaggaagc tgcaggaaga 120

agaggaagct cgcaagcagc agcagtctcc gcaaagtgtt ccgatgggtc cgtcgattcc 180

ccctgctaac aacatcagca agctatgcaa ggacacatgg ggattagacc aatgggtatg 240

accaacaacg ggatgcagca tgcgatgcaa caaccaagaa accggtcttg gaggaacgt 300

ggggcttaga ggaggaaagc aagatggagc agatggacaa ggaaaagatg atggcaagtg 360

aaaaggatcc aaagaagctt tgttttgttg atatttagac tgttaatccc c 411

<210> 7805

<211> 484

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-058-Q1-E1-D2

<400> 7805

aacgttagcc gttcgtagcc tccanaaatt ccanggtcga cccacgcgtc cgatcacctt 60

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tcctgatgaa gaccgccgtt tcccaggaca ataatccgct ggaacattgc agagacgtgt 180

tcgtgagttt catgccctgc atgggcttcg tcgaggggaat atttcaacaa ccttctccag 240

attgctgcag aggcgtgacc cacttgaaca acgtcgtcaa gtttacgtct ccaaggatcg 300

aggaatangc agggatagtg gagaaacaag aanagagtgt gtctgtgca ttgagataat 360

gggaaattgc aaatcaacct ccttttcctc ccggccggct aataatnanc ttctccccc 420

gttggtcccc ttaatcctca aagcttttcc aatcctcccg ttggaaaatg gaccggttcn 480

caag 484

<210> 7806

<211> 504

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-056-Q1-E2-B2

<400> 7806

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ctggagcttc cgtanagaan ctggtcttga tgcacctgga gattactatg gaggatggga 180

gagaccagat agtgaactcc gtggccattt tgtcggtcac tatttgagtg caacagctta 240

tatgtgggct aagtactcat aatgatactc tcaaggagaa aatgtcagct cttgtctcag 300

ctctatcgga atgccaacan aagtctggca caggatatct ctctgccttt ccttccaatt 360

ttttcgaccg ctttgaaact ataacacctg tttgggctcc ttactacacc attcaciaag 420

attttagctg gtcnggttga tcaatacaag ttggctggga acagtcaagc ctttaaagaa 480

ggcaaccggg aanggtgaa ttat 504

<210> 7807

<211> 500

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-056-Q1-E2-B3

<400> 7807

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gcatggtggt taatcagaag atatccggcc ttgcatccgc tatgaacgcc aaaatcatcg 120

gttcaggaga gagatcgatg gtcttggcac acggtttcgg aggcgaccaa gtcggtttgg 180

gataaaataa taccggtctt gtcccaatcc ttcaaagttt tggctcttga ctggcttttc 240

tctggagcca ttaaagatca aactctctat gacccttcaa agtataactc cttagacgtc 300

ttctctgacg atctcattgc tcttatggag gagttgaagt ttggccctgt cgtgttcgta 360

ggccattcca tgtcgggggt gatcggttgt gctgcctcta ttaaaagggc cgacttgttt 420

acaaatcttc tccttaattg gctgcntctc caaggtaata tagacaagtg agggattaca 480

aanggaaggg ttgagtcaaa 500

<210> 7808

<211> 459

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-B6

<400> 7808

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atgggtcttc ttcttgata cgccagtaac aagcttctc catggtcgat gcttctcatc 120  
ggagcttct cttgtttctt cggcttcggc gttctttggc tctccgtcag ccaaactcgtt 180  
cttggttgc ctttttggct gctttttgta gctctagctt tagctaccaa tagcaactcc 240  
gtggttcggt acagcatctt ttgtcaccaa atatgaggaa ttttcctaag ancccgaagg 300  
cctgtgggtg ggacttccca aagggtaaaa tgggatnaag ttgggtgcaa caattcactg 360  
tccttgttca agcaatgggt gcntcaacca ttcaacctat gggattcngc ttcngtntc 420  
cttaccgnt gggaattccg ggttaaaagg ccttaaacn 459

<210> 7809  
<211> 450  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-B7

<400> 7809

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gataaaaaat gtcgctcgtg agaagatttc aaacagttcg ttctttattg aaaacagctg 120  
gntcaagaga atcttcttct cttccattta ggaatgngaa atgagttctt tttgattcaa 180  
attggagatg atttcagatt tgggtgttgg agaagctatc attcntcnc tttgtcacgtt 240  
cctgaagctc atggaaaaag tgcgtattca cgtttanatg aacggcacag cgtcaanaca 300  
catttgcttc gatctacaac gantgcagag tttttgccgt ttaatgaatg aanaanaggn 360  
ctgcnacaac tcaaagttaa ggctccancc tcaagctaca gaaaacgggt gcnggttnaga 420  
ngtgtcnatg ggtaagtcct ggnatttcta 450

<210> 7810  
<211> 494  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-C5

<400> 7810

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tcgtttcacc aaactgggtt ctgcagtttc atggcaatct tcctttccta aactctccat 180  
cgaaatcggc tctgttatct catcccccat tgtcaagaag gattcttttg tgcaagctgc 240  
gtggactcga agatcacgag gtgaagcagc gaaaagaccc aacaggaagt catggaaaca 300  
gagaacggac atgtacatga ggcccttcct tctgaatgtg ttcttctcca ggaaattcat 360  
acacgctaaa gtgatgcata ggccaacaag caaagtcatt tcagttgccca ccacaaatgc 420  
taagagatat aaggactaat ataccgtctc ttgttgataa cgaagcgtgt agactcatcg 480  
gtaagctcat aact 494

<210> 7811  
<211> 515  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-D1

<400> 7811

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agccctttct tttacaagtt gttctccaat ggaatgaggg aatctgagca aaggcatgtc 120  
acccttagga ttaatgcac agaggaagct gctttgatgg agctttttaa ctttatgtat 180  
aagcaatgcg gtatctgtca ccacagcacc tgccttatta gatgtgttga tggctgctga 240  
taagtttgaa gttgcctctt gtatgaggta ctgcagtaga cttctccgta atatgcctat 300  
gactccagag tctgccttgc tctatctcga gcttccctct agtgttccaa tgggccaaaag 360  
ctgttcaagc ctttaactga tgctgcaaaa caagttcctt gcagccccgc tacaanggat 420  
attaccaaag tttcaatgan ggaggtaatg tctctacctt tggctgggaa ttgaagcaaa 480  
ttctatcaaa gcgatgaact ccaaaattgc atcaa 515

<210> 7812  
 <211> 454  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-056-Q1-E2-D5

<400> 7812

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gattgctgaa gcaatgagca aagtgggcag gaaaggtgtg gtgacccttg aggagggtaa  120
aagtgccgag aacaacctct acgtcgtaga aggaatgcaa ttgaccgtg gttatatctc  180
tccttacttt gtgacagaca gcgagaaaat gtccgtcgag ttcgacaatt gcaagttact  240
tctcgttgac aagaaaatta ccaatgcaag ggatcttggt ggtgttttgg aggatgcaat  300
tagaggcgga tacccaatat taattattgc tgaagacatt gaacaagaag ctttagcgac  360
tcttgttgta aacaagctta gaggtacact gaaagatagc agctctcaga gctccaangg  420
tttgagagc gcaaagagcc aataccttga tgat                                454
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<210> 7813  
 <211> 463  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-056-Q1-E2-D6

<400> 7813

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gattggatcg gagatttaag gtaaagaaaa aatggcgcaa caatcgttga tctacagttt  120
cgtagctcgc ggcacggtga tcctcgttga gttcactgat ttcaaaggta atttcacctc  180
aatcgttgct cagtgcctcc agaagcttcc gtcttcgaac aacaagttca cctacaactg  240
cgacggcat accttcaatt accttgctga agatggattc acctattgtg ttgttgcggt  300
tgattctgct gggaaggaaa attcccatgt cctttttgga aagagtaaaa ggaagattta  360
acaaagccaa tatgggtggt ggaaagggtg caactggctc aagnanacag cttgaaataa  420
aggagtttgg ctctaaact gaaaagagca atattgcaag tat                                463
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<210> 7814  
<211> 501  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-E3

<400> 7814

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aaaattgcat tttctaaatc ctaaccaaga taactgttag tattaaccat gaaattacat 120  
aactacatac ataagnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnaagtttga tctttctggc gttgaattta cttaaaaagc 240  
tattgattac nggtctgggtt aaatcaatcc tttaacttta taaagttgtg tcctttgtcn 300  
ttccctcnct tttattcatt ggntctttta attggtttga cctgatagat tccanaagta 360  
anttggtcac agattccaag atccaanttc taacgggtata aaccatcttt ttgggtccca 420  
nngattantg aatgatcaag acgantangt ccttggagac cnnttttttt ttcgtttcca 480  
agggtatgga aaanagaaag a 501

<210> 7815  
<211> 415  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-E6

<400> 7815

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agatatatag cacangaaaa tgangatacc atcaattggc tatgtctttt tccttatctt 120  
catctctatt acaattgttt cgagttcacc agatcatgga gaagttgagg acgaaangca 180  
gtttaactac gagaagaaag gagagaaggg gccagagaac tggggaagac taaagccaga 240  
ntgggcaatg tgtggaaaag gcaacatgca gtctccgatt gatcttacgg acanaagagt 300  
ccttgantga tcataatcnt gggatacctt ccgtagccca ntatttacct tccanatgcc 360  
nccatttngg aaccagaggc caatgatanc atgantgaag atttgaanga aggaa 415

<210> 7816  
<211> 453  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-E7

<400> 7816

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ttggtggtat tgcgaaagag acaagtgaag aagctctgaa gcagtatttt agcagatatg 180  
gagctgtggt ggaagctggt gtagctaaag agaaagtcac tggaaaacct agaggttttg 240  
ggtttggtcg ctttgctaag gattgtgatg ttgttaaagc tcttagagac actcacttca 300  
ttctcggtaa acccggtgat gtgagaaagg cgattangaa acatgaacta taccaacagc 360  
cgtttagcat gcagtttttg gagaagaaaa gtgcaacaga tgaatggtgn gttgcgtgag 420  
atgtcnaagt aatggtgtga ccaataggga cna 453

<210> 7817  
<211> 499  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-F4

<400> 7817

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agagtaacgc tcctttggaa atgatgccac ctccaaccg aatccaatt ctgtttacca 120  
aactgaacat ctatcactat tcaaatttgt tggctgcatg gtggcaaagg cgttgtttga 180  
tgggcagctt ttggatgttt atttcaccg ttccttctat aaacacatac tcggtgtgaa 240  
ggtgacctat catgacattg aggcggtgga tcctgattac tacaagaatt tgaagtggct 300  
attaagagaa tgacgtgagc gacatactcg acctcacatt tagtatggac gcagatgagg 360  
aaaaacacat tctttacgaa aagacagagg tgacggacta cgagcttaaa cctggaggac 420  
gaaacatacg ggtaacagaa gaaacaaaac atgaatatgt tgaccttgtg gccgggcaca 480  
tacttaccaa tggcaatcg 499



<210> 7818  
 <211> 466  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-056-Q1-E2-G3

<400> 7818

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agaacaaggg aaaattaggg tttatatacct caagcttttt cgaacaccat tgatcgttga 120
tctaagattt ttcttctagt cgagtttctt aaggggcttt gatcaaactc aaaattgaag 180
accaatactt tgaaggattc tggtaaagct aaacaactat gagttcaaan tcatgggctg 240
atgtttctga atcagagagg ggcaccatct ggggtggttg ttgggggggtt attctccgtc 300
cgtctcgaac caactangtt cctccanac ttagggagcc gttatnacca tcttcggcag 360
tttggtggcg ccttccacct ggggaataat ggatcnntgg ggggannann gtggtngcaa 420
aatantgggg tatggnngtc canagccaaa aggttatnng tgggcc 466
```

<210> 7819  
 <211> 438  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-056-Q1-E2-A8

<400> 7819

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catccttcca atggctatta cttgagaact cttctgatta aacatagcaa caacaacaac 60
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tttcttccc agctttgggt caatcggaca agatctccaa tttcgcatct tctcgtcctc 180
tcgcctccgc aattcgcac tgcacaaagt tttctgcct ttctttgaat tcgcgttcca 240
cttcgaaatc tcttattcac tgcattgtcca atgttaccgc cgatgtgcct cctgtatcag 300
agacaaagtc gaaattccta aaagcttaca agcgacccat cncgagtatc tacaacacgg 360
ttttgcaaga gctcattgtc cagcagcatt tgatgangta taagaagach tatcgtnatg 420
attctgtttt tgcccttg 438
```

<210> 7820  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-054-Q1-E1-F9

<400> 7820

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acgcgtccga aagacagacc ttcacctcg acttcaccaa aggtttccaa tgcccatatt 60
gtttggtggt gatggcagtt acatggctcc tttctcactt caaaatgaca acattcttac 120
cagtctgatg agtcagcttg gttcgcttac tacttggtat anactgggtg ctggtgtaaa 180
tgctcaatta cgtcctgttc gccgtgggcg tctgagatca acatttcatt ctgttctgag 240
atggttagaa actcatgcta atcccgtctt ggaaacacat ggcatacggg ttgatctggc 300
ctggttccan actacagctt gtgggtactg ccaatatggt ctcttgattc atactgttga 360
ggattgtgaa ccaacatcac ctcagggtgtg tcagtgaaac aacatngact gaa 413
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<210> 7821  
 <211> 467  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-054-Q1-E1-G4

<400> 7821

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gttggagcta atatattgat gtttgattct gtgaatcgaa gaacatgttt gcattacgct 120
gcttattatg gacatgctaa ttgtgttcaa gctattctct ctgctgctca atcaagtcct 180
gttgctgtcc attggggata tgcgagattt gtgaacataa gagatgataa aggagcgact 240
ccgttgcaat tagctgctcg acagagacga cctgaatgtg tgaatgtttt gttggatagt 300
ggttctcttg tttgtgcatc tactagtgtg tatggttctc caggaagcac acctcttcat 360
ttagcagcta gaagtggatc tatagattgt gtcagaaagt tgcttgcttg ggggtgctgat 420
cgtcttcaac gagacgcttc tgggagaata ccttanggtg ggtgcga 467
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<210> 7822  
 <211> 396  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-054-Q1-E1-G5

<400> 7822

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gaaaaaaatg gaagatctat ggaagagagc gaaatcgttt gcagaagaag cagcgaagaa 60
atcacaaaacc ataacactac aatcatcttc aacaacattc gtcaatctcg tcaccgaaac 120
cgctaaaaaaa tccaaagagt tcgctctcga agcttctaag aaagctgatt cgatcaatgt 180
ctccgagttc gtcgccgaga cggcgaagaa gtcaaaggaa ttcgctgctg aggtttcaac 240
gaaagcggat cagctcaaag tcgtagcatt gaaacaagct ggatcaggat ccagaatata 300
aaatcnattg ccgacattat acctggagga ttaggaggat caggatctgg tgggtggtgg 360
tctgaagttt cngaatccga gcttggn tag gtttg 396
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<210> 7823  
 <211> 404  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-054-Q1-E1-G8

<400> 7823

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ngtggatgaat ccaccggcgg cggcgacaaa caatgtggct gtngaaacgt ctccggcgac 120
ggcgacgagg agacngcgac aacaacaacg agcttcgttc gctgagttta gaccgtttta 180
gctttggttt ccatggcttg ttccagctat cgtggnggct aacattgccc ttttcgccat 240
ttcgatgttt attaacantt gtcnaagaa cncggcttan tgcttagcta ggtttcntgg 300
gaagatttgc ttttcagcct angaaagaga atcctcttct ggggtcgntc ttctttgaca 360
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<210> 7824  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-054-Q1-E1-H4

<400> 7824

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gggcggacgc gtgggctctc tcgttctttg cattttggaa agttcgaaac agagcctctg 120  
taaattacgc gtaaagtttc aatctttatt cacacaattc acacagctaa tgtaagcatg 180  
agaatcttca gattcacgtc aatctcaccg cggattttgc cgtcgaatca ttactcaaca 240  
ttcccgttga aacaaaacgt gtcttctctc tcaccggcga aatacattgc gggagcttta 300  
caagaanata tcaattctcc ggcccaaaaa gctggtaaga agatacacgc agatatcatc 360  
aaaactgggg tttcaaccan gattttgant atatccatca aactactcat tcttcattta 420  
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aantaaccgg ggttgaaag 499

<210> 7825  
<211> 403  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-055-Q1-E1-A6

<400> 7825

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cgagaagtct caagtcgacg atatggagaa cggagacatt ccagaggacg ctaacgagca 120  
ttgccaggt cctcaatcag aatctgctgg aaaatcagat tcttgctgctg gctgccctaa 180  
tcangaagct tgtgtactg ctctaaagg acctgacnca gatttggttg ccatagcang 240  
agaggatgag cantgttaag cacaagattc tggttttgtc tggcaaagggt gggagttggg 300  
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cgctgtgatg gacattgnta natgcgggtc naagcatccc aaa 403

<210> 7826  
<211> 402  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-055-Q1-E1-B3

<400> 7826

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cataagtgct tgtttcatct tgggttacag gtgctgggaa ttagatgggc atcaatcttt 120  
tatgttgaga gtgtagcaag agtgaaaaag ctctcattaa gtggattggt gctttacaag 180  
ttgataatag ctgatcaatt ctttgttcaa tggccacaac tgcataagaa gtatcctcgg 240  
gctcactatg ttggggtgcc tgatgtaagc tgattgggac tctacttaca cctagnatnn 300  
tattacaaaa acttagaana gctacatagn gtacaccttc tctttanatg cacgattgag 360  
ttttanacaa tgantttttg naancagctg tttttgactt tg 402

<210> 7827  
<211> 392  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-055-Q1-E1-C6

<400> 7827

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tttgttttta agaaatgatt ctccacaaaa tggcggttctt ggccggttatt ctcttcttct 120  
tgataagcag cagcagcggtt tgcgttcata gccgtgaaac gtttgcttgc gatacaaagg 180  
angcagcanc agctacactg agattctgcc agctttcagt tctataaccg gngagagtca 240  
gacatttgnt cggacgggtg gacattggcc ggagaaagtg ggcntgttat cggaacactg 300  
cggnggcgat acnacgtcna ntgaatcana gggtagcant tgggtggtcng gnggctttac 360  
acggnngttt caaatgtggg acncggtagt aa 392

<210> 7828  
<211> 419  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-055-Q1-E1-F5

<400> 7828

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tcttcttctg ctgctatgct tcttgaatcc atctctatga caactctcaa caatctctct 120

cgtaatcatc aatctcaccg cagttctctt cttggtttct caagatcttt ccanaacctt 180

gggaatctca tcnaacggct cagatttctc ctcccgatca agatctacta cttccangan 240

cctcaacggt actcgagctt tcntctggaa ttgggggcaag aagaccgang nctccagacn 300

aagtaagatg nanagaacta anngtgtatg agctcannga aggagatata aacagtcnag 360

caggttctctn anactcgggc anggannnga ngcagagctt tgtcctgggg gatngcgtc 419

<210> 7829

<211> 384

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-055-Q1-E1-F6

<400> 7829

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tctctggatt tanaaatttt caatctacct ttcaatcgcc gggggataat cgaaaccgga 120

tctgtgtaaa aaaatgatga aatcgacggc gagatttgcg tctgattgtc gttataatga 180

tcacaaaagc ataaaagcgt gacgtttccg cgtcttcgcg tatctcgga actttaatcc 240

gtatctaaag gagctaaatt tgaagcgann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnngaagc ttgcctagtt tcgaagttat tcnatgtttt atcnncant tctagatcat 360

agnttttgga aatttaagtt ttan 384

<210> 7830

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-055-Q1-E1-G12

<400> 7830

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ngaaccacaa gaagagaaga gacccaaaagg aggagccaaa atcctctctt tctttggaat 120  
tagggtttcc tcaaaggaag tgaactgaaa atgggtcgcg acaagagcaa gaagtcgaaa 180  
nttgaagaga aaggcgaaga agaaaacttg gagcagatcg acgcagagct tgttctctca 240  
attgagaagc ttcaggagat tcaagacnac ctcgagaaga ttaacganna aggccagtga 300  
cgaggtcttg gaagtagagc ananatataa ngtgatacgg aaacctgtct atgacangcg 360  
caatgaagtt atccaatcga ntctgggtt ttggatgact gcttttttga gtcatectgc 420  
cttaggcgac ctcttgactg aagaagacca gcgngatttt t 461

<210> 7831  
<211> 456  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-A1  
  
<400> 7831

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agagggttgc tgtgatcaga gtcaaaatct taaaagagtt ctcttctttg cctaaagaga 120  
tcgatccatt ctttcaaacc ctagatcctg aagtgatcgg ttacttggag gtcaaaaagg 180  
tgtatgagat tctcctgaag acaactccgg aaagccgcaa catctttggt cgactttcgg 240  
gtgcttctgg tggttgggaa gcaattgttc gtgcgtttga aaaagatcac atttatcttg 300  
gggaaggagc tcagataana antcanaatg ttaattacna aaanccctta tcttaaaaag 360  
caaatgnaaa anggtcaaca acaaatgaca ngnacntgat cngtaaagaa actgatatca 420  
aaaggagcnn ttgnactcct cagcaaacaa aatncc 456

<210> 7832  
<211> 489  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-056-Q1-E2-A3  
  
<400> 7832

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 ntacgaagct tcccttcctt tagtttatac attactctca gctctcttta tttcactcag 180  
 cttcacgttg aagacgagtt tctctatttg ccaagatctg ttatctttca catttctgat 240  
 ctgtttgaag aaagctatga cttgtgtttg ntaaagagag aagcaaaaga aggaacagtt 300  
 tttatataaa gatatttgct ttatttggtt gttcttaatt gttgccacga aaatggcaat 360  
 gccaccacct gggaaatgtt actactccgt ctggagaaan tgcagtttcc tctccgggc 420  
 aaattgggtc cangangagc gagatgggtt taaccctgg ctctgtcgg agtttcgctg 480  
 cgggnaagg 489

<210> 7833  
 <211> 447  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-056-Q1-E2-A7  
  
 <400> 7833

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 aacaacaaca actcttcttc tctctcttt ctcaattcaa tttagcgatg gctgcaactg 120  
 caatctcttc tcttctcttc ccagctttgg gtcaatcgga caagatctcc aatttcgcat 180  
 cttctcgtcc tctcgcctcc gcaattcgca tctgcacaaa gttttctcgc ctttctttga 240  
 attcgcgttc cacttcgaaa tctcttattc actgcatgtc caatgttacc gccgatgtgc 300  
 ctctgtatc agagacaaag tngaaattcc taaaagctta naaagcgacc catcccagat 360  
 atctacagna cggttttgca ngagctcatt gtccaacagn atttgatgag gtatangaag 420  
 actaatcggt atgatccgtt ttntggc 447

<210> 7834  
 <211> 487  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-054-Q1-E1-F3  
  
 <400> 7834



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 tgtttcttgggt ttacttaatc ttctttctag ttaagtatat tcttgttgct catcaccaaa 120  
 gcttgtgatg gaggtctctt tcntgagttc ctentcttcc tccattgtan cgtcaaacan 180  
 ncttactagg ttacacaacc attgtgtctg gtctacagtg attagagata anaaaagggtt 240  
 cggtcncact tgggtgccgtg taagtgggtg tgggtgatggg gggagaaaaca gtaacgcaga 300  
 gaggcctatt cgggttttctt cgcttttgan aagacagagg tcaggtactg attangggaa 360  
 canagttcgc cggctatgga tgctgagaca ttggttctgt ctccaaacng gaatgggana 420  
 ancattgaga tcaatgggag taaagacttt gatgcctttt aatggcgcct ccaagggggg 480  
 ggatnaa 487

<210> 7835  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-H11

<400> 7835

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 nttagtgatc naaggaatgg ctttttcttg ccggacaaaa tggcttgggg aaatggaaac 120  
 attttgtcct tnggtgggct tttgtcgggg taacagatgc tggtttcaag actattcttc 180  
 actcttgccg taacctctcc aagtttagta tatatcatgg acctaaattg acgatcttg 240  
 tcttccatga catcttagca actactcttt cgcttagtca tgtagctta agaaggtgcc 300  
 atcttcttac tgaccacgca attcaaaagc tggcatcaaa gtctcaagct ggagaatctt 360  
 gacctcagag ggtgcagaaa cctgagggat gaaaccttga cagctgtatc tcacttgcca 420  
 aaactgaaag ttttacttcc ntgatngcgc tgaatattta tcgacacagg gccttccgta 480  
 cccaaaaaga aggaagnttt ttg 503

<210> 7836  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-053-Q1-E1-H2

<400> 7836

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acaacccact tggctcctca ttctcttcgt tctgggggtca atctcaatct tcaaattcat 120  
cttcaccctc ctcanatctt tctacatcta cttcctccga ccatccaaaa acctccgcgc 180  
atacggttca tgggcaatca tcaccggacc aacagacgga atcggtaaag ctttcgcctt 240  
tcagttagcc cagaaaggct ttaaccttat actcgttgct cgtaaccag acaagctcaa 300  
agatgtctct gattccatca gatcnaagta tagtcaaact cagattttga ccgttgatgat 360  
gggtttcccc tgganatat gatgaaagtg tgaaacggat taaggagant tattggaagg 420  
gatnnattgt tgggaatttg atnaannaat ggctnggcac gtcttacctt aatgctaaag 480  
tattttca 488

<210> 7837

<211> 493

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-053-Q1-E1-H3

<400> 7837

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ggggcaattg ctctcatttc gcgtttatct gtctgctgaa acgcagaaaag cttctccagg 120  
gtcgtttaag cgaacccaaa agactcgaaa accatcttcg cctgatagaa gaggtccggt 180  
ggctccgtcg cggaaatctc agaactctgaa tttggaagtt tctccacata gagctgtatc 240  
tgcagtcaga ttgatgagaa ttgagtacgg tgggtgctttt gctgatcttt tgaatgagaa 300  
aggaaaangg tcttggggag caatgagatg agttatgttg aaaggactat cggttttcgg 360  
actcncgatt tggatgaccg anactctaga ctgggttaca gatgttggtg gaggaacaat 420  
acggtggaag aagtatcctt gatcatttga ttgggtccct ttgccacaac gaaagaacna 480  
ttttcgaaat atg 493

<210> 7838

<211> 497

<212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-H4  
  
 <400> 7838  
  
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 cggaagaatc ngtcgttttg ttgctagagt tgttcttcag agggatgatg ttgagctcgt 180  
 cgctgttaac gatcctttca tcaccaccga agtacatgac atacatgttt aaggatgac 240  
 agtggttcacg gtcagtggaa gcaccatgag ctttaaggta angatgacaa aaactcntct 300  
 cttcggtgan gaagcaatca ctggttttcg gcatcaagga acccctgaag gaaatcccca 360  
 tgggggggtga aggctnggan gctgacttgg ttggttgant tcnacnggng tccntcaact 420  
 gancaaagna cnaaggcttg ctgcctcact tnaaagggtg ggtggctaaa aaaaagggtg 480  
 tcaatctccn gcccaca 497

<210> 7839  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-H5  
  
 <400> 7839  
  
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 tattcagtca aggatgcccc ataatgcatt cattagatca aatttcctc aaacatcctg 180  
 gaatgttaat cctggccagc agattgaaaa agagccgaaa aaagaagaac aatttagtcg 240  
 taggatatcg gctcaaagtc ctcgtttgtc ggcagggtgt ccaccgcagt cccactttc 300  
 atcgaagtct ggtgagtttt ctggtggttc aatggggacc cactatggag cagttgcagc 360  
 agctcanaag ggacaangct gttacttca atcctgctat tgggtgccta ctcaantcan 420  
 gttgggttcc aanggctaata tgaanctatg cagnaaaagg ggaacaccaa agcccaaat 480  
 ggctgcnaaa cggggcaa 498

<210> 7840  
 <211> 503  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-H6

<400> 7840

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cgcggtgggcg gacgcgtggg taaaaagggtc gagatttctt gatagcgcaa tgaccacaca 120
gaccagannt tcgaaccttc aaaagggaata tatataattt gtttcttagt ttctcgagta 180
tctaccacct cgagatctga aaatctgatt ctacctttcc attttctttc tcaaaagtcg 240
tggctttgag aatagttttt tctctttcnt ctcatcagac tcggtttcct agttgactca 300
ttttcaanga tctgggcata ngtcanttct ttaataaaag ctttcttttt ttatntatcc 360
cttttgtttt cagctgctgg ttgcttgatc tangtanagt tttgggggtg ccttacttgc 420
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tttgnggaat ctgcgccaat tct 503
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<210> 7841  
 <211> 505  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-H8

<400> 7841

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tgatgctgaa gatattttt ctgagttttt cggcgaatcc ggtgatgctt ttggcggagg 120
gagtagcgga aggacacgtg gagatggcgg tgatggtggc ggtcggagat ttaaaagtgc 180
agaagcaggg agccaggcta atagaaagac gccgccgacg aacaaaaaaa cgacgccgcc 240
ggcgaatagg aangctccgg ctattgagag taaattggct tgcacattgg aggagctcta 300
caaaggtgca aaggaagaag atgcgaattt ctgcggttgt tctgatgat tttggaaagc 360
caaagacagt ccangagata ttgaagnata nacataaanc caggttgga agaaaggcac 420
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aaagatcact ttttccaaga gaaaggcaan ccaanaaacc tgggtgtcact cctggcgggga 480  
 ttcctaaatt ccgtgggttg acnaa 505

<210> 7842  
 <211> 415  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E2-A10  
 <400> 7842

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 ctctccaagt ttagtatata tcatggacct aaattgacgg atcttgtctt ccatgacatc 180  
 ttagcaacta ctctttcgct tagtcatgtt agcttaagaa ggtgccatct tcttactgac 240  
 cacgcaattc aaaagctggc atcaagtctc aagctggaga atcttgacct cagaggggtgc 300  
 agaaacctga gggatgaaac cttgacagct gtatctcacc tgccaaaact gaaggtttta 360  
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<210> 7843  
 <211> 413  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E2-A2  
 <400> 7843

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 ttgcaaagca tggaacagan ctgttactgg accttattgt tggcaagaga ttgacattga 180  
 gctgtggagt' aaccgttttc accagtctga tcatcttgac cggatgcttg agatgttgat 240  
 ccctagaaac gctgngctct ttgcgaaaac tctccgttac tggccttcga aatgactcta 300  
 tcntctcctt cantgcacaa catgctgggt cacntaagac cttgaagggtg ccaagaagtg 360  
 gtctgactaa ttcnggtgtg gnaaacgtag ctgaaaagct ctcgtctcnc act 413

<210> 7844  
<211> 446  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-053-Q1-E2-B1

<400> 7844

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gaatgaagac cctgcagacg agcccaaaga aaaagattca aatttgaaac cctttgcaag 180  
tttagaggaa ttggagaaag gaaggttacc tccacaggat attctttcac tccctatggt 240  
caagaactac acagctggga atccgtcggg tgtactgtat atcaaaaacc ttgccaaaga 300  
tgttggttatc gatgatttct attacatatt tgggtcacag ttgaaagcn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nngaaa 446

<210> 7845  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-053-Q1-E2-B4

<400> 7845

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aatccaattt ccatgtanat tgccacacca ttctggttct cttccttgtc ttttcactag 180  
ctccttttcc tcttggtgatt gtctaattga ccggttggtt cgatcagttt aagattcana 240  
agaagggttaa gtattcnttg tctgagnatg ttccaatggt atnaagaagt catgaatttg 300  
ttcctttctn gtcgtcggca cattgcaaatt cttttcttat ctttccatcc agatgggttg 360  
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t 421

<210> 7846  
 <211> 414  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E2-B6

<400> 7846

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cctctacgcc agttctctac ccctaggcgc tttatctgtg ccgagagcaa ggtcaatgga 180
ggaggcaggt catgttcgat tgttgctcca ttggtagtga atgaagaatt tcagaacatc 240
gatgtcaatc ctctaaagg aactccgtga tttccctcct gaggatatgc tactccgcaa 300
ctggctcttc aaccacttca aagaggtctc acggttantt gggatatgagg aagtggattt 360
tcnagtantg gagacggagg cattgttcat cagaaaagct gggggaggag natt 414
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<210> 7847  
 <211> 433  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E2-B8

<400> 7847

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angcgtccgc aaaaagaaaa acaatagcta atttaatatc ttcttgatgat catcacaata 60
ccacattgat ccaaggccag ttaaaatctc tttcaccatg aagataaaga ttatgagcaa 120
aacacatgtg aaaccaacan aaccagtact aggggaanaaa caattccacc tcaccacatt 180
tgatcttcct taccttgctt tcnacnaca ccagaagttt ctactcnaca aggttccaga 240
nccttctaga tctcgaggaa cccacattcc aaancgaggt cgtggagaat ctcaagggat 300
ggtttgggtt tggttcttga ngacntctat cancnegccg gtaagctggg ccaanggneg 360
atgnaggagt cttccgtgtt gagtacgacg ctggngactc agagatcaag cngcgtagan 420
gttcggcgtc gct 433
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<210> 7848  
 <211> 507  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnagc tctttatcac cattgtctcc 180  
 tttcttctct atgtccatt gttcttatct tcaccagttc ctgaccctga atctgtcgtt 240  
 gaagaagttc acaagagcat taatgcgtcg gttgcaggaa gaaggaagtt aggttacctc 300  
 tcatgtacga ccggtaaccc aatcgacgac tgttggcgtt gtgaccctca cngggagcaa 360  
 caccgtcaan ntctcgctng actgcgccat tggantccgg gaaaaaaggc caatccggtt 420  
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<210> 7849  
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 <400> 7849  
  
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 aaggatgacg gagcaccagt ggcagctgca gcggcggtc cagctggcgg tgagaagaag 120  
 gacaaagttg ctggtgaaaa gaaagagatt aaagatgttg gagaaaagaa agtcgacggt 180  
 ggtggtgana agaagaaaga agttgctgtt ggcgggcgtg gangaggagg tggacgtgga 240  
 ggagaccgtg gtgctatgga tgtgaanaaa tcggantata accggttacg ggtaatcctc 300  
 cacagccgat gtattntac ccagaannga ccaggtntnc ggttcaacca accattacat 360  
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 aggggataac ctgcn 435



<210> 7850  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-E2

<400> 7850

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aacgtcctaa aacactactc aaaaacgaat gtttttttta ngtnataact tatatttgtg 180
tgactatttt gatataacta ttattgcaga tctgtggatc tnaacacttc tctaattgctt 240
ataatgacga gatctaagca tgagaangaa gagataagaa gctcatgaca agaattctgaa 300
gaaaattaan tttgtttttc acntatcgcc cgccattgtt gttctacact gagcttannc 360
agttgacacc tgtagatcca aaaattcaaa aagtttacca ctgnancata ctcaggcntt 420
ttncttaaag tgancagagc tctgataaag tatgacaagt agcggttaca tngggangtt 480
ggccaaagaa aattgagn 498
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<210> 7851  
 <211> 498  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-E3

<400> 7851

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atgctgcgaa ttccttgatt gaggattatg ccgcctgcct tgagggacga cttgaagagg 180
gtgaagttgt agagaacagt tgtgatgac taggggtcct tattatgcag cttctgggtg 240
ataatatcaa ccggcctgcc ccaagtatca cacatttgct tctgaagttt gatcttgatg 300
cccctgtgga agggacagtt ttgcagccga agtttacta acagttgtct gnaaggatcat 360
tccttgaaat gcctgggaga aagcntccaa accctgaatn atnaacttcc tactcctttg 420
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aantttggct tcccaagcct ttgtgtgant tgaaattggg attcanctaa ctaagngggg 480  
ccaaaccaat ggattcna 498

<210> 7852  
<211> 503  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-053-Q1-E1-F1  
  
<400> 7852

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gaaaattctc atcggcgttt agatcaagaa acttggaat cggagaagct cactgagaac 120  
aatggatatg agacgtgctt cgatgtgtat gatgttaatt tgcgtctcct tggttctcct 180  
ttcgggtttt ggccagtttg tgatctgcag tgaagaaaaa aggaacgtac aacgacaacg 240  
tcgtaaagat gaagcttggg ggatttagcg attccaagaa cgattggaac ggtggaaaag 300  
agatcgatga tattgcactc ttcgctgttc aagagcacia cagacgagag aatgctgttc 360  
ttgagcctgc tangagtatt gaaggaaca agagcanggt ggttgctggc aaagctatac 420  
cntcctaccc ctgaaagtta atgaancctg ggtgaagaaa aaagatttat gaanccaaaa 480  
gtttgggggtg aagccaatgg gat 503

<210> 7853  
<211> 463  
<212> DNA  
<213> Arabidopsis thaliana  
  
<223> unsure at all n locations  
<223> Clone ID: LIB24-053-Q1-E1-F11  
  
<400> 7853

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gagctgtcca agcttgccgc aaacgctttc ttggtcaaa ggatttcac agtgaatgct 180  
atgtcggctc tgtgtgaagc cacaggcgca gatgtcacgc aagtgtctta cgcggttggg 240  
acagactcaa ggattggtcc caagttcttg aactcgantg ttggattcng tggttcntgt 300

ttccagaagg acattctgaa tcttgtcnac atctgtgant gcaacggact cccggaagtg 360  
gcanagtact ggaaagcaag tcatcaagat naatgactac caaaagganc cggttccgtg 420  
aaaccntgtt tggtttccnc caatgttcaa ctccggtatc nag 463

<210> 7854  
<211> 491  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-053-Q1-E1-F3  
<400> 7854

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actatggaaa attaggcaac aatcttcctt ttccttacca atcaatcaac ctcatcaaaa 180  
ccattaaagc aggccacgtc aagctctatg acgccgatcc agaaacccta aagctcctct 240  
ctacgaccaa tctttacgtc accatcatgg tccctaacaa ccagatcatc tcaatagggtg 300  
ctgatcaaag ccgctgctga taactgggtc gccactaatg tccttccttt tcacncgcaa 360  
acccgaatcc gattegtecn tccgttggn ncgangtcct cagntacagt tctgattcaa 420  
gacangcaaa atatggggct antcntgtcc ctggccatgc ngnaaagtag tgaacncct 480  
tagaccggtg g 491

<210> 7855  
<211> 485  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-053-Q1-E1-F4  
<400> 7855

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gagaggagaa agtagtgatt gttgggggcg ggattggcgg acttgccact gncgttgctc 180  
ttcaccggct tggaatccgg tccgtggtgt tggagcaggc anagtcgctt cggacaggag 240

gagcatcgct gacgctatcc aagaatgggg tggcgtgttc ttgacgccat ctccatcgga 300  
 cctcaactcc gaaagcagtt tcttgaaatg caanggggtgg tattgaanaa ggaagatgga 360  
 agagagcttc gttctttcaa atttaaagac aatgatcaaa gccaaagaaag ttcggggggg 420  
 tggagaggcg aagtactcct gggaaacact tgcaaaccan ccttctccac aaaccattcc 480  
 ggttt 485

<210> 7856  
 <211> 499  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-F6

<400> 7856

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 tgcttcgact tcacgtggcc gctccacgaa gcgcctttgg gtttcgtctt ccccgtttct 180  
 ctttctctct cttcttttgc ctttgttacc acgaatagaa cgagaggaga gagataggag 240  
 gagagttttg ggatattggg ggagagcgat tatcgggaga gccaaagaaa aaaaataagc 300  
 agcttcttcc tccctcatcg ttgggaccgt gacttttgtt ttcttcagct ttaagcaanc 360  
 aaannaaaaa gatgaccggg cgttggcgan aatcagetta tctcnaattc aacctgaatg 420  
 aactcaaatt tctcntttga actttgagaa gcaaaacctt ctggtgattc ttaaaagttt 480  
 gccagttagn acaagggaa 499

<210> 7857  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-F8

<400> 7857

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accaccacga cggagaaaac gtcacaattc gccttcacct gaacctaac gaaaacatac 180  
 caagcctggt agtttggatt cagatatgtc accacctcgc aaaagaaaag ccaggaatga 240  
 ttcgccttca ccagaantcg aagctaaata tctgagtga gatctatctc ctctcgtan 300  
 gagacatggt cattctccat cggcgtgaat ctagcanaaa gccgttcaag attcngttga 360  
 agttggacna tgatttanct cngcctcgc aagaangng aattacatgg ntcaccgtgt 420

<210> 7858  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-F9

<400> 7858

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 aagaagaaac ccacnacggn tctctcgatc tccaagagat tcgcaggcgc gtgaaagagc 180  
 tcgatttctt tccccggaat tgcanagaag agcctgtaga atcgtgtagt tccgattacg 240  
 aagactctgg tggntcanga ttttgttctt cagtttgaac caaagggtgnn aagagattgt 300  
 tgaagganna ccgcgatggt gatttaantg ggctgttgaa cattcaagat tgcttacttg 360  
 gagtacntgn gaaaatganc ttcagtcngt ggaggctgaa aagtgccaaa gtttctgnag 420  
 aaaattggag cgtctttctc aagtctcatg cccanggat tctaataaggg ttgccanacg 480  
 gggatctt 488

<210> 7859  
 <211> 459  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-G12

<400> 7859

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atgggagggg tgacgtcatc ggtggcgggc gaaagtttgc cttcntcccg ccgagtcac 180  
cgtcttataa ggtggtgacc gacgagctca ccggactgtt gcttctcage cctttcnccc 240  
accgcgaaaa cgtagaaatc gtaaagcttc ggaccaggag aggcacagag atcgtgggca 300  
tgtncgtgag gcatccgatg gctacctccc angtcctct actcccatgg caacgcgcgc 360  
gatctgggac acatgtatga gctcttcatt gagcttanca tcnatctcaa ggttaatctt 420  
atgggatacg nttactccgg ggtatggaca aatctacng 459

<210> 7860  
<211> 416  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-053-Q1-E1-G8  
<400> 7860

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ctagaatttg gattctgttt cagacaaaag tagatttccc tgtctctttc ccgtttgatt 180  
ttcaataacg atgaatccgg aggagcaaaa gatggaatct gcatcggatc tgggcaagct 240  
cttcattggc gggatttcat gggacacaga tgaagaacga ctgcaagagt attttgcaa 300  
gtangganat ttggttgaag ctgtgatcat gagagaccgt actancggac gtgccccgtg 360  
gcnttgggtt tatcgttttt gcagatcctt ccngttgccc gagagatcat catngg 416

<210> 7861  
<211> 448  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-053-Q1-E1-G9  
<400> 7861

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ctaattctga gatggcatcg gagaagaagc tctcgaaccc tatgagggat attaaggtcc 180

anaagctant tcttaacatc tctgttggtg agagtgggtga tegtctcact cgtgcctcca 240  
 aggtgttggg acangctcag tgggtcanact cctgtcttct ctaaggccag gtacactgtg 300  
 aggtctttcg gtatcaggcg taatgaaaag attgctgtgt atgtcaccgt ganaggtgaa 360  
 gaaggcaatg cagcttcctt ganaagtggc nttgaaagtg aangaatacc ancctgttga 420  
 ggangnacct caatgacact ggntgctt 448

<210> 7862  
 <211> 434  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-D8

<400> 7862

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 ttgccatccg tagtggaat ggtcttctgc tgaagggtgg aaaggaggcc cggcgatcaa 180  
 atgctatctt acacaaagtg atcactgatg caattccana cactgttggg ggtaaaactca 240  
 ttggacttgt gacttcaaga gaagagattc ctgatttgct taagcttgat gaccgttacc 300  
 gatcttgtga toccaaggan gaagcancaa gcttgttact cagatannac atnctacaga 360  
 aatcccngt gctangtcan gccgattgga aatctgncca tntatntgtc ngacaaaggg 420  
 cttgttnaat accg 434

<210> 7863  
 <211> 539  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-052-Q1-E2-F2

<400> 7863

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 nnnnnacaag aactttgttt tggggcttca tccatcgttc aaggttcggt gaaaactatg 180

aagaaagttg agttttttat gtcctttctc tgcttcatcg cagcgtcatc tctangtgtc 240  
 tgctgatcca ccancatgtc ctgctgattt gggaggcaag tgtagtgant ctgatgactg 300  
 gcaaggtgat ttcttccttg aaatcccan gattaantat gacggacctt tcgagtaaga 360  
 acccacgtgc ctacangtgg tataactcnn gagnangaag attcttggga agaaaatgga 420  
 acggattggn ttaaatttca gtgttgcggt tttggcatac tttcccgtn ggaactggga 480  
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<210> 7864  
 <211> 511  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 ctgtccaaaa gctcaagact gagaatgggt tttctgatca agccatctcc tttcacctc 240  
 ttgatgtctc caaccagac accatcgctt ctcttgctgc ttttgtcaag acccgcttcg 300  
 gcaaaactcga tattctgggt aataatgccg gagttggagg ggcgaatgtt aatgttgatg 360  
 ttctcaaagc tcagattgct gaggctggtg cgccaactga tatttccaag ataatgagtg 420  
 atacatatga gataagtcna ggantgtgtt aaaacaaact actacngcgt taaagcgaat 480  
 gttgcgaggg ccatgattcc tctccttcaa t 511

<210> 7865  
 <211> 473  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-A2

<400> 7865  
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 anctgttact ggaccttatt gttggcaaga gattgacatt gagctgtgga gtaaccgttt 240  
 tcaccagtct gatcatcttg acccggatgc ttgaagatgt tgatccctag aagcgctggg 300  
 ctctttgcga aaaactcccc cggtactggg gcttcgaaaa tggactctat cttcctccct 360  
 tcaattgcac aacaanctgg ttcacgtaan gaccttgaan ggtgccaaagg aagtggncctg 420  
 acgaaattcg ggtgtggnaa aacgttanct gaaaaaactc tccgtctctc acn 473

<210> 7866  
 <211> 488  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-B11  
 <400> 7866

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 caagggagat aagcaaagcg caggatagac tgactgacct tctccaggac gtttatgcaa 180  
 gttatccaga gtacagagaa cttttgcgga tgataatgtc tactgtaggt cgaggaggtg 240  
 aaggagatgt cgggcaacga atccgtgacg aaattctagt catccagcgg aaaaatgact 300  
 gcaaggggtg aattatggag gaatggcatc agaagttgca taacaacact agtccagatg 360  
 atgttgatcat ctgtcaggca ttgatggatt atatcaaaaa gtgactttga ctttaagtgtt 420  
 tactgggaaa accttgaaac gataatggca taaccaaaga gcgaccctaa gttatgatcg 480  
 tgctanac 488

<210> 7867  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-B4  
 <400> 7867

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 aatccaattt ccatgttnnat tgccacacca ttctggttct cttccttgtc ttttcactag 180  
 ctctttttcc tcntgtgatt gtcgaatgga ccggttggtt cgatcagttt aagattcaca 240  
 agaangttaa gtantcgttg tctgatatgt nccantgtta tnaanaagtc atgaaagttg 300  
 ttccntctcg tctcggcac aattgcaa atcggttccnt anccgtccat ccaagaatgg 360  
 ttgggaattc gaagtgggnt tggcaattaa caancgttaa tggagataag taancaccaa 420  
 tta 423

<210> 7868  
 <211> 492  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-B6  
 <400> 7868

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 acgcgattga gctccagctt tattaggcct gttcttcttg acttcgtttc ttgttcgcct 180  
 ctacgccagt tctctacccc taggcgcttt atctgtgccg cgagcaaggt caatggagga 240  
 ggcaggtcag gttagattgt tgctccattg gtagtgaatg aagaatttca gaacatcgat 300  
 gtcaatcctc ctaaaggaac tcgtgatttc cctcctgagg atatgcgact ccgcaactgg 360  
 ctcttcaacc acttcaaaga ggtctcacgg ttatttgggg tatgaaggaa gtggattttc 420  
 caagtactgg agacggaggc attgttcac ngaaaaagct ggggaaggag attaagagac 480  
 caagtttgtc tt 492

<210> 7869  
 <211> 430  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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<400> 7869

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accaacaaaa ccagtactag ggaagaaaca attccacctc accacatttg atcttcctta 180  
ccttgctttc tactacaacc agaagtttct actcnacaag ttccagaacc ttctagatct 240  
cgaggaaccc acattccaaa acgaggtcgt tggngaattc caanagatgg tttggggttt 300  
ggttcttgaa gacttcnatn anctccgccg ggttagctgg ccnagggacg angaaggagt 360  
ctccgntgtt tgagtncgac gcngangact cacagatcaa cggccgtaga agttctccgt 420  
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<210> 7870

<211> 471

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-053-Q1-E1-C11

<400> 7870

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ctcaacaata ccacaagcca ttgtcctcct gttgtttact ttgacagggt ttctattgaa 180  
tcttacagcg acccgtcgct tgtttatctc tccttcttta ccgagaaggc tcaagttgga 240  
acttccctga tagatcttgg aagtgatgga ggtccggccg tgtttcataa ttttgcagac 300  
aacaacttca ctggtactct caagtctata ccacttgac aggagcgggt gggaaagcga 360  
tctcctacat attttctgct gggaaggga tgggtgttac nggcaatttc cgggaaatcc 420  
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<210> 7871

<211> 414

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-053-Q1-E1-C5

<400> 7871

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attgtgctct tctgggtttc atgaacatag aggttatgct gataaatatg agttcttggg 120

atcaaaacca ctttgcctct aagatggctt ctttgattac ctcaactttg tttctgttct 180

ggtgtctggc ttccatctga atgtggcatt cctatgatca gatattctaa aatgggaatc 240

ggcaanacgg naaatcaatt tcatgangat tactttcagc tgcacctaata caggcannnn 300

cagtctaacg cttatgcatt antgttgcta ctttgacgga acaagttggn accaactctc 360

cggaagagga agaccctttg aangggcttc ccangagtta caaaacgcgn aagg 414

<210> 7872

<211> 446

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-053-Q1-E1-C6

<400> 7872

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tctaagacca agctaccggg ggagatcatt gatttcatcc atgcttctac tgctaattat 180

gggaaagtga agttggtatt gaagaaaaat cgggtatttta ttgaatcacc attcccgag 240

gtgttgaaaa ggcttctcag tgatgatgtc ataaatcgag caagatttac ttctgagcca 300

tattatggtg gtgatggatt tacgatcggc anaacaagtg gtgaacttga agcaaggacc 360

tggggagttg ttgaatgaaa ncagaattgg cagcagcagn aaganganaa agaaactcac 420

tcanttgaga taganccctg cactgg 446

<210> 7873

<211> 502

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-053-Q1-E1-C8

<400> 7873

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 ttccgccttg tccgattctg cttcacctct gcgcattcct tgtctgatcc tcgcaggaaa 120  
 ctctactgtc agcaataggt tgatgggttc tgcagccaga cagcctctct tctcatttgg 180  
 tgttattgct gatgttcagt atgctgatat ttctgatggc cgctcttttt taggtgttcc 240  
 taggtattac agaaacagca tccttgctct tcaaagagct gttgaaactt ggaaccaaca 300  
 tggnaacctc aaatttgta ttaacatggg tgacattggt gatggctttt gtcccaaaga 360  
 tcaatccttg ggcggccact aaggaaacta gtcnatgaat tcgagaaatt caanggtccc 420  
 tgtgtatcat angaagtggg naatcacngc cncnaaaaat cteccccggc gangaagttg 480  
 cttccgttgc tggaaggatc cn 502

<210> 7874  
 <211> 474  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-D3  
 <400> 7874

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 tacctcgccg gtggataatg cctgaccgta atctctcttt caaggatttc aaatctcttc 180  
 ttcacgcgcg taaaaaagcc cttctcgtc tcccccttaa ccctaatttg aaccttagcg 240  
 tcaagactga gttggttact gatcaggaga atccaattct tccatctgaa gcgaacggtt 300  
 cttctgggaa gcagaagcta ttgaggtaa agagagagga gatttgtggg aatcgggtta 360  
 aggggagatg agaacaacga cagaggtttt gaanggagct ccgatcagac ggtgganac 420  
 gtccccgggga gaattgacgg gnatcagagg aaaccgataa tgtggccaca cnaa 474

<210> 7875  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-053-Q1-E1-D4

<400> 7875

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aagctccaat taaaaaccct atgagctcat ctctctctcc aggtacggcc ttttcgtttt 120  
tggctttcac cggcgtggat ctccggtgac ggggagattc ggaatttcgg agagatttta 180  
gatcatgtat anggagatag gtatggttgg atcgaagtcg gacgtggtcg atcngaaacg 240  
aataaacgan attcacgata acaggccttc gcattcgatg tctcancctg tcaatggaaa 300  
angcaaggta acatcgacct cccgttttga tggggaaaca ccaanttgc tgatnaggaa 360  
tcttcacntt ctggttcaat ctccaaggac taacatttcc gacgctggtg gagatatcan 420  
acc 423

<210> 7876

<211> 516

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-052-Q1-E2-F1

<400> 7876

actgtttccc tgntctaccg ccccgganat tcccgnagtc gaccacgcg tccgaatnaa 60  
ttanggttca gagagatggg tagganaaag aaatctaggg cttcgacaac cgaagaagat 120  
gagattgaga tggataatgc tggcccatcc tctgagacaa gtctttacga ggttcttggg 180  
gttgaaagaa gagccacttc acaggaaata agaaaagcat accataagtt ggcattgaag 240  
cttcaccctg ataaaaatca ngatgataag gaagctaaag acaagttcca gcagctgcaa 300  
aaagtgatat caattcttgg tgatgaagag aaaanggcag tctatgatca aactgggtca 360  
attgatgatg ctgatattcc tggagatgcy tttgagaatt tgcgggattt cttccgggga 420  
catgtataag aaggtaacc aagcctgata ttgaagagtt tgaggcaaac tacaggggat 480  
ctgatcagag aananagact tgccttgaac ctttca 516

<210> 7877

<211> 351

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-051-Q1-E1-C12

<400> 7877

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caacggtctg caagaattgg gatacactat tgtttctact ggaggaactg cctctacttt 120  
ggagaatgct ggagtctctg tgaccaaagt ggagaagctt actcattttc cagaaatgct 180  
tgatggccgt gtgaaaactt tgcattccaa catacatggg ggtatcctcg ctanaaggga 240  
tgtggagcat catatggaag ctcttaatga gcatgggatt ggtanatttg atgttggtgg 300  
tgtcaatttg taccocgttc tatgaaaaag ttactgctcc aangtgggat c 351

<210> 7878  
<211> 414  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-051-Q1-E1-C2

<400> 7878

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catccccaaa ttgataacaa gaaaatggct catgcttgcg tctctacatc ggcttcttct 120  
ctcagattca nagctggatt cgtctccgct agtcccaatg gntcctcttt cgattcnccc 180  
aagctttctc ttcttttcga ggctctccg ttcaaggaan gacgaataag ttagttaagc 240  
gataganaga attgggaaga antcaactcc ggaaagctgt atattccggn aatctctgga 300  
caccgggaga ttncgtctcc tcaaggaggt ttgggtccatt agagatgatn tacaangtcc 360  
cttcttcgnc gtagtttccg gcttatgctc aanggacaaa ggaccaacct ccna 414

<210> 7879  
<211> 406  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-051-Q1-E1-C3

<400> 7879

acgcgtccgc ccacgcgtcc gcttttaaag aagcaatatt ttttgtgttt tgttttaagt 60

tttaacacac aaacacatta cctcgaattc gatacgtcat agtaattagc aactatggaa 120  
 cgatgtcggt ctgggtcatca tcgcatcatt tcttattanc tctcttcttc gttgatacta 180  
 ttttggtgta ttttcgttct cgtgctgtta tctacgacaa gtactacaaa tgcttttagtg 240  
 aaaatcccga aaaacncgac cgttccggcg gtaatagtgt tcggtgattc anttgtcgat 300  
 gccgggaatn acgacgacat gatnacagaa gctangatgc gattatgcnc cctacggcat 360  
 tgattttgac ggtggaagtt gcnacgggaa gattccccctn atgggc 406

<210> 7880  
 <211> 381  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-C8  
  
 <400> 7880

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 ggngaggatt agaggtgcac ttgttagtag caatggcttt ctcatcactg gtggacantt 180  
 cttctcgtac ctcatcaatc ttgcttttgt ccatactccg ggaacatgga gatggatgtt 240  
 ggggtgttgcg ggagttccan gctattgttc agtttgtgcn tatgttgtcg ctacctgagt 300  
 ctccaagcgt gggttatanta gaanaaggac aatgattgcc ggaatcccan aaccgattcn 360  
 ttgagaagga tttaccnngg g 381

<210> 7881  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-D10  
  
 <400> 7881

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 tcatactgct gaaggaaggg acggacacat ctcaaggcaa agcgcaacta gtaagcaaca 120  
 tcaacgcttg cactgctgtt ggagatgtag ttcgaaccac gctcgggcca cgagggatgg 180



acaaactcat tcacgacgat aaaggatccg tcaccatttc taacgatggg gctaccatca 240  
 tgaagctcct cgacattggt catcctgctg ctaagatcct cgtcgatata gccaaatcnc 300  
 aagactccga ggtgggtgaa tgggacaact acantgggtc ttcttgccagc agagtttttt 360  
 gaangaagcg aagccattta ntgggggggat gnggttcacg ctcanaatcg aagttagggn 420  
 gtttcc 426

<210> 7882  
 <211> 382  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-D11

<400> 7882

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 ggagaagaat gggacgatgg tgggtgcttac gaaaacgtca agaaagtgta tgttggtcaa 120  
 ggtgattctg gtgttgttta cgtcaagttt gattacgaga aagatggaaa aatcgtatca 180  
 cacgaacatg ggaagcagac actacttga acagaggagt ttgtggttga tccangaaga 240  
 ttacataaca tcaagtgaat atttactacg agaanccttt tggatcacc gatagagatc 300  
 gtaacggctc taatctttaa ngacattcaa ctgggaaaaa cttctcance ttttggacta 360  
 acctctggga gaangaagct ga 382

<210> 7883  
 <211> 422  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-D3

<400> 7883

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 agcaattgga tatacaattg catcagctat aagtttggtg gcaatccaaa ggacaagttg 120  
 ccaacagatg aatggaccaa atgatccttg tcatgttaat ggaaatgttt acatgattgc 180  
 gtttgggtatt gtacaaatca tattctctca gattcctgat tttgatcagt tatgggtggct 240

ttccattgtc gctgcggtca tgtcttttgc ttattctgcc attggacttg gccttgggtgt 300  
 ctctaaagtg gtaagagaac aaagaaatta aaggtagtct cactggagtc actgttggga 360  
 cagtgcact gnagtgggac agtgacatcg tcgcagaana tatggagaac atttcantct 420  
 cc 422

<210> 7884  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-D7  
 <400> 7884

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 gcaaacaatc atgnggaccc agatcagcaa gaagagaaag ttcgtagcca atggtgtgtt 120  
 ttacgctgaa ctcaatgagg ttctaaccag agagcttgct gaggatgggt actctgggtgt 180  
 tgaggttcgc gtcactccta tgcgtactga gatcatcatt agagccactc ntactcanna 240  
 cgttctcggg gagaagggaa ggaggattag ggaattgaca tctcttgtgc aaancagatt 300  
 caantttcct catgacaggt gttgacctt atgctgagaa ggttgccnna cataggtctt 360  
 tgtgctactg cncagngctg agtctctncg ttacaagctt catggngngt 410

<210> 7885  
 <211> 418  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-E4  
 <400> 7885

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 tactttggac gangtttgcct ccctgaaaga ggagaaaacc acatgcattg ccaaattggaa 120  
 tgctgtagct ttgcagaatc aaagcttaga ggcaaatttg cagaatatta ctcacgaaaa 180  
 cctcatcctt ctgcaaaaga ttgatgaact ggaatctgta gtgttggagt ctaagagttg 240  
 gnagaccaat tatgagacat gcatttgtga agaaaaaaga gcttgcaaag cttatgggag 300

aaagaaacgg tgggaaaaag ctcaatatcc gacaaggcnt gctactgtnc aagctgagtt 360  
 ttgatgctgt ganaagtaan gtttgatgaa tttgggctac cngcaaattg aaaatcta 418

<210> 7886  
 <211> 382  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-E6

<400> 7886

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 gggcaaggat ccgtcttata aaccaagaca agaacaagta caatactcct aagtatcggt 180  
 ttgttgtccg gtttaccac canagacata atggcacaga ttgtatctgc aagcattgct 240  
 ggtgacattg ttaaaagcct tctgcttacg cacatgaact gcctcagtat ggtcccactg 300  
 ttggtectac aaactatgnc tgnagcttac cggtaccggc cttccttttt ggctcgcng 360  
 tgttttaaag aangttggga aa 382

<210> 7887  
 <211> 419  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-E7

<400> 7887

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 tttttttatt antattgaaa tcaaggagaa ttaaaacaga ggctctgcaa aagaagatga 180  
 tcaaaacaat cacatctcta cgcaaaactc tggttctacc tcttcattta catattcgta 240  
 cgctacaaac tttcgccaag tacaacgcac aagctgcac ggctttgcga agaagagcgt 300  
 nanaaacctc ttanacaana tggagatgan ngatatgcg gatttggntt gggaataanc 360  
 tcgggttttg nccaaaatcc aatctgannt acatgtntgt catngaaaat ggctcaaaa 419

<210> 7888  
 <211> 446  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-F12  
  
 <400> 7888

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cgagtgtcaa gagacgattc taaacctggg aaagcagctc aaggcattga ctaactcaaa 180
ggaaacagct ttactttcag aaacactcat gtacgacgtt acagacaaat cgaacaacct 240
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atcatctctt ttggatcaga tgaaggcaga agatcacaa accggggaat ccaaggatca 360
gaaaccgcaa ngcagcaaga ttaaanacgg aaaagggaag aaaacagctc tgtttacaat 420
gaaaccattg aaggcactag aacaaa 446
  
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<210> 7889  
 <211> 410  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-F2  
  
 <400> 7889

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tattgttacg tggggacaaa gtcatgtttc tacactccat tctggcgaag aagttgatct 180
ttacatggat caatcttcag gtggtgggtc cgaatccaag gacgcctacn gatcaggtct 240
ctttgaaatg agaatcaaag tgccttcagg aaatactggc ggcatcgtca ccgcttttta 300
cttgacgtcc aaaggaagtg gtcacgacga gattgacttc gaatttctaa cgnaacaac 360
aacggaaaac cgtaacgtt tacagacaaa tctgtttctt aaatggagna 410
  
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<210> 7890  
 <211> 507  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-C11

<400> 7890

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ttttgttgca cctgtgagtc tgcgaccatg gctatgcaat ctggtattgg gttatcgaag 180
attttgattc tagctggagc aggttatact agtacgattc tggttaagaa tgggaagatg 240
gcagatattt tgggtgaagc ttcaggcttt ggttaagcga tttgagaaat ctggagatca 300
tgtagatgat gattctgatg ccatgactac ncagatgcaa cgattagcaa tgggaggttc 360
gngcaantgg cntcgtccgc gggcagataa ctggtnagga aatgggagct cangggagct 420
gantttacac ctttttantg gtccccgngn angcgacatn tgggagcant aaggctatgg 480
gntaganngt gggttcaaag gggaaat 507
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<210> 7891  
 <211> 420  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-051-Q1-E1-F3

<400> 7891

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tactgaatgg atgtcaaaga cgagtgggat cccagtttca gagatttgct aacaccgttt 180
tctgttgtag aacaaggatg ctacacagca tatatttgaa gtctcagctg gtcttgactc 240
tcttgctcta ggaaaaggct agatccttgc acangtgaaa caagttgtga aagttggcca 300
aggagtgaat ggctttggga ggaatatcag cgggctgttt aaacacgcga taactgttgg 360
taagcgtggt agaacagaga caaatattgc ctctggtgog ggtttcggtt agcncaactg 420
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<210> 7892  
<211> 68  
<212> DNA  
<213> Arabidopsis thaliana

<223> Clone ID: LIB24-051-Q1-E1-F4

<400> 7892

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aaaaaagg 68

<210> 7893  
<211> 420  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-051-Q1-E1-G12

<400> 7893

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ggtacaatct gctgaactct gcagtcttgg atctgcttga gcacatacgc aagggaaatg 180

caactctggt gctcaaatac atagttgata cgttctggga ccagttggcc ccatttcagt 240

gcttgacctc catccaggct ttcaagggtta agtatgaaca gtgtttaaga aagtgccgga 300

ccaaaaagca cttctgatgc ggttgatcca agaagaagag ttgacgagcg ggcattggag 360

aaagangaan gaagattatt tcaatgaaag acagcgaatg aagaaagatt caagcctcng 420

<210> 7894  
<211> 492  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-050-Q1-E1-E7

<400> 7894

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tcctcacacg atcaaaaaga tagttcaaata ttttctttaa agcttaagaa accactcagt 120

ggaaaccaag actaattaag gctaattggtt tctcgacaag aaggaaccct ctactctaga 180

aagagggatt tcacagtctg tggagaagag ttccacaatt cattcaagaa gagcaaacaa 240  
gaagatcaat cacagagcac tctgttcaat gaacgaccaa aatcgagag tatgagatca 300  
attacctttg attttgaact tcactctcac actcctctac catcagattg gcaaactaag 360  
ggatattcaa gaacatctga tgagcatagg gcatatccca aagatccagt gatttttgga 420  
caacctaaga tgagcctaag accttgagct gaacctttca ccttcagggt caccttcacg 480  
aaccacaacg an 492

<210> 7895  
<211> 495  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-E8  
<400> 7895

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gcgtccggcg ctcgataatg gctgcttccg atgattcctc tcaactatttc accgagttta 120  
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caciaagatt tctgtcaaac tgttgctctc acttttantt gttctgtgaa tcggaatggc 240  
anacctcta taacctggaa acaggtacag atttggttcc aggagaagct gaagcatcaa 300  
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<210> 7896  
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tgccatgtat tatgaatcaa ttaccggaag gccattatc tcatcggtatg aaatcggtcc 240  
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cagatcttgg tgctganagg ancatgggaa aaagngctag aagctcataa agntcnaga 360  
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<210> 7897  
<211> 425  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7897

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aaaatcggtc cttacactgt ctttatgact cntcctgcga ctcttaaacc acctgaatct 180  
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gtcacaaagg ttcaaatgn acattcangg tgtggattat catttggtgn ggtggtttgg 360  
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tcacg 425

<210> 7898  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-F5

<400> 7898

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<210> 7899  
 <211> 455  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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 gaacagggtg atatcacaga tcatttcac cttgacaaca tctttgaggt ttgatggtgc 180  
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<210> 7900  
 <211> 403  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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gcgtaacttt gttgagacag tggagcttca gattggctctg aagaactatg acccacaaaa 180  
ggataagcgt ttcagtggnt ctgtgaagct cccacatatt cctcgcccaa aaatgannat 240  
ctgtatgctt ggagatgctc agcatgttga ggaggcanag aaaatgggac ttagtaacat 300  
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<210> 7901  
<211> 504  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-H2

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gccggacaca ngtttttcag tgnattccat tggcnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnntctaaca aggagtcaaa gtttctgact ttttcgcatt ctttttgana 240  
tcgantttctg tttttggtgg cgtgtgaaga tgaattctta aagaangaag aananganga 300  
aggaaaagat gcgtangaga gatctccgtt tttgctacag gcccaangtg tcttcttctt 360  
ctcnttgccc taacgatttt cctcgtcttc gcncctcttca acaccggna aagatgagga 420  
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<210> 7902  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-H3

<400> 7902

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ttcttagggg tccggcaaga aaccaccgta tgacacactt ggttggttgc ggcgtttcca 180  
caaaacgcca ccaccgtgaa atcaatgcac tcagcagtaa tagtggtcca tcgttggatt 240  
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ggaggttcgg tgggaagttt gtaccggaga cattgatgtc tcgctgata gaacttgaag 360  
acgaatttaa ctttgttagg tgcgatcacg aatttcagga ggagcttacc acaagcgta 420  
aagagactac gtaggaanag aaacgcctct ctacttcgcc gaacgtctaa ccngaacact 480  
aca 483

<210> 7903  
<211> 434  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-H5

<400> 7903

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tgttatcatc aaagggatca gatttatcgc catggntact ttctctattg aacggctttg 180  
agctacgttt ggaaganaga ctgaagaaac ttatgcctaa gaacanagat gacatcctca 240  
ctttatcctg gatgaagcta nctatggagt cactctgcga agactcataa gaacattaac 300  
actctcatta ctgatctcca gtttctgtc tctgattggg aagagaaatg ggttgatgtn 360  
tacctcaaca tangcggtan ggttnctana tctctggtan tgcctttang ctngagggtc 420  
aagacgtccc aaan 434

<210> 7904  
<211> 483  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-H8

<400> 7904

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 aaacacttct tttgcgtttg catttgcat tcctaaaccg ccaatagtaa ggagactatc 180  
 aacgacagt acatcaaatt caacagcgtc ttcttgctca gccaatggaa atccaatcga 240  
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 ggttggttc ggacgcgact caattggcgg tagagccggg gagttctaca cggtgactgg 360  
 attcaggaga cgacaatcct cctaaatcna actccaggta cattacggta cgctgcgaca 420  
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 aga 483

<210> 7905  
 <211> 426  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
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 <400> 7905

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 tctgctctcg tcgtctcggg agcaagtgcg gagggagctc cangagagat tgacctatga 300  
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 tattgc 426

<210> 7906  
 <211> 423  
 <212> DNA  
 <213> Arabidopsis thaliana  
  
 <223> unsure at all n locations  
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aacttgaatt ttgcgaacct ttttggtatt tttcaaaatt tagtctctct gtagaacttt 180  
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taactttcna tttatgggtct ctacatgttt tctgtttaat tctattanga aacatgtgat 300  
acagagaggt agcttatanc tgcagtcaaa agatcttata aaggatatgt ttaatgtnag 360  
anatatctta aggaacttgt ttcggttagg aatttagcgt ccaaaaagct cctaggattt 420  
ggg 423

<210> 7907  
<211> 411  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-E6  
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cttacgaatc ctacgccga cggcggaac gacatcttcc gctgttattg aattaccggc 180  
gaacgtagca gaagctctc gttccaaacg ccattccaat tcatacctgg cgagaaaatc 240  
cgccatttct gaagttcaac gtcctcgga ttttctctct tctctgcang agattagcaa' 300  
cagttttgaa ggtacaagat ttgaatgtaa ttttgccgtg attttggaat cncgtgaaag 360  
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<210> 7908  
<211> 421  
<212> DNA  
<213> Arabidopsis thaliana  
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 ggaataactgt cctggagggtg atctgcacac tctaaggcaa cgtcaacccg ggaagcattt 240  
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 catgctcggg gttgtttaca naggacttga agcctgagaa tgttctgggt cgagatgatg 360  
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 a 421

<210> 7909  
 <211> 491  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
 <223> Clone ID: LIB24-049-Q1-E2-H4  
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 tgcctttaag gttaagacga cgaatccgaa aaagtattgt gttaggccta ataactggag 360  
 ttgttctccc gaggtcnaat tgcnaagttc ttggtgacca aggnaagntc aaaaggaanc 420  
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<210> 7910  
 <211> 422  
 <212> DNA  
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 <223> Clone ID: LIB24-049-Q1-E2-H7  
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 aacctgattc ccagagtcag tacagtcaca cctgcaacat ntccttctc aaaagatatt 360  
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<210> 7911  
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<210> 7912  
 <211> 411  
 <212> DNA  
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 <223> Clone ID: LIB24-050-Q1-E1-A7  
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ccttggtgct cttcaagact gggtttctca tactgacatc aacaagtttt gatataattgt 360  
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<210> 7913  
<211> 428  
<212> DNA  
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<223> unsure at all n locations  
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gaaatggctt tgaangatga gaaacagtta atgggtgagtt ttgttgcaat ggtctgtttt 360  
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attgagtt 428

<210> 7914  
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<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-B8

<400> 7914

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<210> 7915  
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<210> 7916  
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 <223> unsure at all n locations  
 <223> Clone ID: LIB24-050-Q1-E1-C4  
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 <223> unsure at all n locations  
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<210> 7918  
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 <212> DNA  
 <213> Arabidopsis thaliana  
 <223> unsure at all n locations  
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<210> 7919  
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 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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 aggcggttta aaagatgaaa acatcattgt gtttatgtat gatgatatcg cgttttcttc 180  
 ggagaatcct aggcttgag ttatcattaa taaaccagat ggagaagatg tttataaagg 240  
 agttcctaag gactacacta aagaagctgt taatgttcaa aacttctaca atgtgttact 300  
 tggaaatgaa agtggcgta caggaggaaa tggcaaagtt gtgaaaagtg gtcctaataga 360  
 taatatcttc atctattatg ctgaccatgg agctcctggc ttagtaacga tgccaactgg 420  
 gaactggaan tcttctg 437

<210> 7920  
 <211> 482  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
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<400> 7920

ctgttacgcc tgcntgtacc ggcccaaaaa tccccgaagt cnaccacgc ntccgcaaga 60  
 cgcgtnggtt tccaatctct taagtaattg gcggcgaana tgggtttcct gatagggggc 120

tcttgcttcg tccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngantaa tgtcgccaag 240  
ttcaagcgcc gacgaccaac attggcttct ttaaaccagg aagatgggta cgagtatgac 300  
gttgcttcg ccaaaangag gggctttcct tcttggtggg anctctgttc ntcccttttt 360  
gcagcttcga tcaccccgt ttggctgatg aaanaggcaa tgagataaag acatcgaaan 420  
gttgatctan aaactgacgt tgcagtantt agtgaaggga anatcgcaa atccatttcc 480  
ng 482

<210> 7921  
<211> 508  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-050-Q1-E1-E4

<400> 7921

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accaaacgtc gtcaatacat ttcttcaaatt tacgtttctt ttatccttcg ttacnctcaa 120  
caaattttga tatctgattg gtgttgattc caagtaagga nagatcaaaa ctttaggtaa 180  
agtatggata ngggtttcca tgaaaatgng caaatcaag aatttgcgaa tctaattggag 240  
attggatctg ggcattacgg gtgttcacan tatagaagac gatgcaagat tagaacacca 300  
tgttgatgat agatttttga ttgcagacat tgccacaacg aagctaanga ttctcttcan 360  
attgaacanc atcataggac attgagcttc ctcgacaatg aagtttcaaa ngtcatatgc 420  
tcgctttgtg aagacagnac aaggacgttt canccagaac ctgctccaaa ntgttgnggt 480  
aatgttatgg gggaaattcc ntccggtt 508

<210> 7922  
<211> 455  
<212> DNA  
<213> Arabidopsis thaliana

<223> unsure at all n locations  
<223> Clone ID: LIB24-049-Q1-E2-H3

<400> 7922

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 ttaacaccga ctccacaaac gctgtcttac cgtgttaagg aagagttgtg tccatcttcc 120  
 tccttgccaa gtcctaaagg ccaacaacca agagttgagg ttagattaag agaaggaaag 180  
 gcagtgaaca tacacatggt ctgtggacgt anaccaggtc ttttactttc caccatgaga 240  
 gctttggata acttaggatt ggatgttcaa caagcgggtga ttagctgttt caatggtttt 300  
 gctttggatg ttttccgcgc tgagcaatgt caagaagacc atgacgtgtt acctgaacaa 360  
 atcaaagcag tgctttttaga tacagcaggt tacgccgggt ttgggtttga atggcnnaag 420  
 cnnganggga agcatccggt gtggaacaga acctn 455

<210> 7923  
 <211> 437  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-050-Q1-E1-E5

<400> 7923

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 agtgagtgga ctccggcaaag gagtcacggc aagtagcatc ggactcatcc tcaaactctg 180  
 tggcttccga gtcaccgcca ttaaaatcga tccttactta aacattgatg ctgggaccat 240  
 gtcacctatt gaacatggtg aagtttacgt cttggatgat ggtggcgagg ttgatctgga 300  
 tcttggaac tatgagaggt tcatggatat taagctgact agtgaaaaca acataactac 360  
 tgggaaaagt ttataancat gtgcttgacn aaagagagga canganatta tccttgggaa 420  
 gaactgttca ngggtgt 437

<210> 7924  
 <211> 484  
 <212> DNA  
 <213> Arabidopsis thaliana

<223> unsure at all n locations  
 <223> Clone ID: LIB24-049-Q1-E1-C4

<400> 7924

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ttaacattgt tatagattag aattcactct ttgctttggt tatttgggtg tttatctatc 120  
gcaggaatta gggtttttgg tctgcttcga tggatatgga tcaagagata ggtcaaaatt 180  
ctcctggatt tgatggtgaa tcagtagtgt caatgagtaa tagaagcaag gagactgaac 240  
cagtcccggg tgagaatgac tattatcggg aaaacggatt caacannnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nncagaagct ccttcactga tttgaatcaa ctcccggcga 360  
ttccgccagc ttctagtggg caaggtttgc cgtttgcacc tgtcgatttc ccgaacccc 420  
cggcgatggt tggacctgga ganttnggaa ggagantgna ataatgcccg ggttccaaaa 480  
aggn 484

<210> 7925  
<211> 427  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-049-Q1-E1-C7  
<400> 7925

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nnncaagcgc ttctttaatg gcggctgttc aatgtctcac tttctcttc ttgtttcttc 120  
tccaaaacgc gacgtcagct tcacctctcc ctctcttcgc gcggncgatc caaagcaacc 180  
acagcaactt cgtgaagcat cctcgccgaa gtcaggtggg tttcccgggtg aatcatagta 240  
gttgtgatct gttcgccggc gagtgggtgc gggatgagac ttaccactt taccggtcta 300  
aagaatgcgg ccgaggaatc atagatccgg ggattcgact gccatactta ngggcagacc 360  
tggactccga nnancncaag ttccggtggg naanccttca actgcaatgt ccctaagag 420  
tcnaatg 427

<210> 7926  
<211> 484  
<212> DNA  
<213> Arabidopsis thaliana  
<223> unsure at all n locations  
<223> Clone ID: LIB24-049-Q1-E1-C8

<400> 7926

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tctttttata aagattttgc aagttaagtg taaacctaca aaaaccaaac atggtgggtt 120

tgccacagcc agtcacttta gataaccaca tctccctaata cccacatac aaaccgggtc 180

cggttctcac ttcccattca atccccgtcg tcaacctagc cgatccggaa gcgaaaaccc 240

gaatcgtaaa agcctgcgag gagttcgggt tcttcaaggt cgtaaaccac ggagtccgac 300

ccgaactcat gactcgggta gagcaggagg ctattgggtt cttcgggttg cctcagtctc 360

ttaaaaaccg ggccgggtcca cctgaaccgt acggttatgg taataanacg gattggacca 420

aacngtgaan ttggttggnn ttgagtatct cctcctcnaa tgncaaacct cangtctccc 480

ctcc 484

<210> 7927

<211> 422

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB24-049-Q1-E1-C9

<400> 7927

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gttcgaanaa acaagtttta aacttggttg gttttgtggt cgatccggtg aagctattga 120

tgctcttggt gcacattttg cccctcttcc tgctccact ccangtccc gcgcccgcgc 180

ccgcgcccgc tccangtcc agctccctcg cccgctcccg cttctgcgcc cgttccagct 240

cccgcacca cgcccgtcc agctcnagct cctcntaaca nagtggaagc tctaangagg 300

aatggtgga acantatgtg acgatggggc tttcgatcat ntaannanng gttaataant 360

ggtcaangtg attcctggtg tancctatgt gaagttcnaa atacagnaga agatggggaa 420

aa 422

<210> 7928

<211> 486

<212> DNA

<213> Arabidopsis thaliana